

QUICK INSTALLATION GUIDE

Load Management

Language index

English.....	2
български.....	8
Hrvatski.....	17
čeština.....	26
dansk.....	35
Nederlands.....	44
eesti keel.....	53
Suomi.....	62
Français.....	71
Deutsch.....	80
Ελληνικά.....	89
Magyar.....	98
עברית.....	107
íslenska.....	114
Italiano.....	125
latviski.....	134
4	
lietuvių.....	143
norsk.....	152
Polski.....	161
61	
Português.....	170
0	

Română.....	179
79	
slovenský.....	188
88	
Slovenščina.....	197
Español.....	206
svenska.....	215
Türkçe.....	224

Load management

English

This Quick Installation Guide (QIG) briefly describes the most important installation and configuration steps for the load management functionality of the EV Charger. This QIG is not a replacement to the manufacturer installation manual of the EV Charger and the Energy meter, it is complimentary to these documents. More detailed information is available in the EV Charger installation manual and the Energy meter installation manual. This QIG is intended to be used by qualified electrical personnel (installer) who are responsible for the installation of the EV Charger and Energy meter for the purpose of the load management functionality.

Before installing the load management functionality, read this QIG carefully and attentively. Follow the instructions in this QIG. Chargedot is not responsible for any damage that has been caused by not or incorrectly following and executing the instruction described in this QIG.

General:



- **Warning** – Electrical equipment should only be installed, accessed, serviced and maintained by qualified electrical personnel.
- The electrical installation should be designed and constructed according to local laws, safety and electrical regulations.
- Make sure that the main switch of the distribution cabinet (Consumer Unit) is set to the OFF position, before starting the installation work. Do a voltage check to make sure that the electrical power is turned OFF.

Disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by Chargedot. Chargedot assumes no responsibility for any errors that may appear in this document.

In no event shall Chargedot be liable for direct, indirect, special, incidental, or consequential damages of any nature or kind arising from the use of this document, nor shall Chargedot be liable for incidental or consequential damages arising from use of any software or hardware described in this document.

 **Warning** – Working with high voltage is potentially lethal. Persons subjected to high voltage may suffer cardiac arrest, burn injuries, or other severe injuries. To avoid such injuries, make sure to disconnect the power supply before you start the installation.

 **Warning** – For safety reasons it is recommended that the equipment is installed in a way that makes it impossible to reach or touch the terminal blocks by accident.

The best way to make a safe installation is to install the unit in an enclosure. Further, access to the equipment should be limited through use of lock and key, controlled by qualified electrical personnel.

 **Warning** – Do not operate the equipment outside the specified technical data.

Installation Requirements – To comply with the protection requirements the energy meter must be mounted in protection class IP 51 enclosures, or better, according to IEC 60259.

Caution – Be careful that no liquid gets into the meter and EV Charger since it may damage the equipment.

Warranty and accuracy are void if sealing labels are removed.

This manual is applicable for the following EV Charger models and recommended to be combined with indicated energy meter models:

EV Charger			Energy Meter		
Chargedot Part Number	Model	Three or Single Phase(s)	ABB Part Number	Model	Three or Single Phase(s)
6AGC082155	Terra AC W7-G5-R-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC082156	Terra AC W11-G5-R-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC082158	Terra AC W22-G5-R-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC105906	Terra AC W7-S-R-C-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC082154	Terra AC W22-S-R-C-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC082157	Terra AC W22-G5-R-C-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC081282	Terra AC W22-S-RD-MC-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC118141	Terra AC W7-S-R	Single	2CMA100155R1000	B21 312-100	Single
6AGC118142	Terra AC-W11-S-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118143	Terra AC W22-S-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118144	Terra AC W7-G5-R	Single	2CMA100155R1000	B21 312-100	Single
6AGC118145	Terra AC W22-G5-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118146	Terra AC W7-S-R-C	Single	2CMA100155R1000	B21 312-100	Single
6AGC118147	Terra AC W22-S-R-C	Three	2CMA100166R1000	B23 212-100	Three
6AGC118148	Terra AC W22-S-RD-MC	Three	2CMA100166R1000	B23 212-100	Three
6AGC118149	Terra AC-W11-T-RD-PC	Three	2CMA100166R1000	B23 212-100	Three
6AGC118155	Terra AC W7-S-R	Single	2CMA100155R1000	B21 312-100	Single
6AGC118156	Terra AC-W11-S-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118157	Terra AC W22-S-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118158	Terra AC W7-G5-R	Single	2CMA100155R1000	B21 312-100	Single
6AGC118159	Terra AC W22-G5-R	Three	2CMA100166R1000	B23 212-100	Three
6AGC118160	Terra AC W7-S-R-C	Single	2CMA100155R1000	B21 312-100	Single
6AGC118161	Terra AC W22-S-R-C	Three	2CMA100166R1000	B23 212-100	Three
6AGC118162	Terra AC W22-S-RD-MC	Three	2CMA100166R1000	B23 212-100	Three
6AGC118163	Terra AC-W11-T-RD-PC	Three	2CMA100166R1000	B23 212-100	Three
6AGC128169	Terra AC W7-G5-R-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128178	Terra AC W7-G5-R-C-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128177	Terra AC W7-S-R-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128176	Terra AC W7-S-R-C-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128175	Terra AC W11-G5-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128174	Terra AC W11-S-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128173	Terra AC W22-G5-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128172	Terra AC W22-G5-R-C-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128171	Terra AC W22-S-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128170	Terra AC W22-S-R-C-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128195	Terra AC E7-S-R-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128196	Terra AC E7-S-R-C-V2-0	Single	2CMA100155R1000	B21 312-100	Single

6AGC128197	Terra AC E7-G5-R-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128198	Terra AC E7-G5-R-C-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128199	Terra AC E11-S-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128200	Terra AC E11-G5-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128201	Terra AC E22-S-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128202	Terra AC E22-S-R-C-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128203	Terra AC E22-G5-R-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128204	Terra AC E22-G5-R-C-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Single	2CMA100155R1000	B21 312-100	Single
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Three	2CMA100166R1000	B23 212-100	Three
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Three	2CMA100166R1000	B23 212-100	Three

Energy meter models

For 1 phase EV Chargers

ABB Part Number: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



For 3 phase EV Chargers

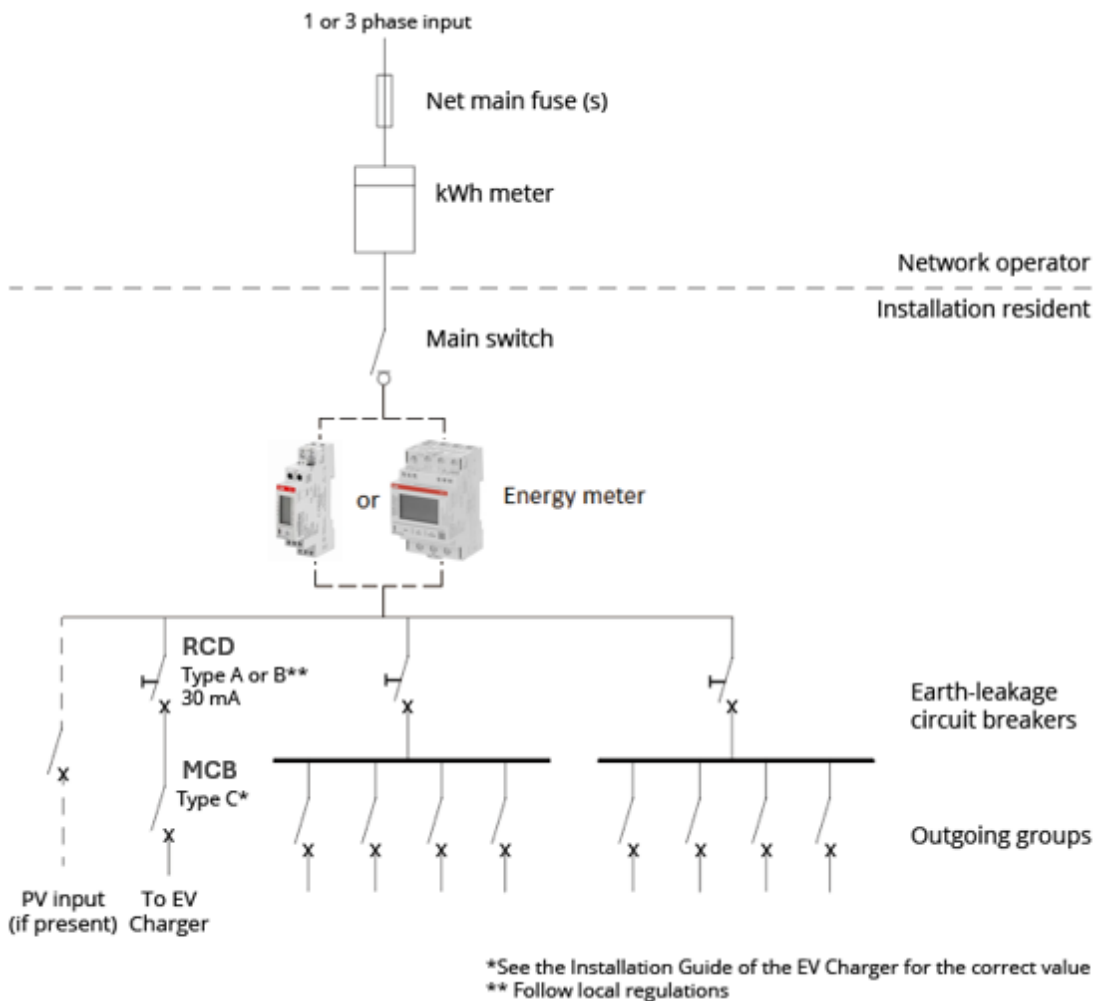
ABB Part Number: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



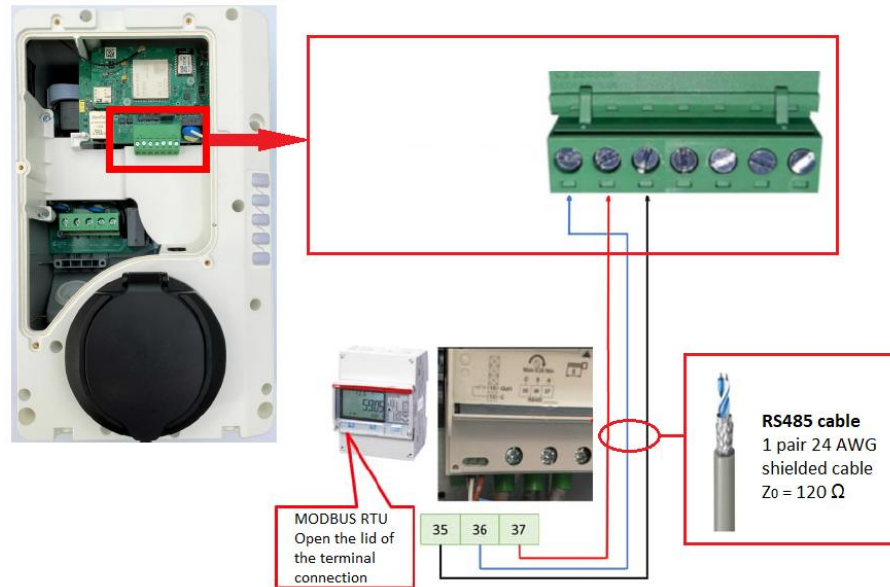
For the mechanical and electrical installation of the Energy meter, use the included installation instructions (can be found within the packaging of the Energy meter) or download manuals of the used Energy meter in the link *Downloads available documents* above.



The main switch is only for safety disconnection during installation. The energy meter can be placed anywhere that measures total household consumption—if your earth leakage breaker can turn the power off, it works like a main switch too.

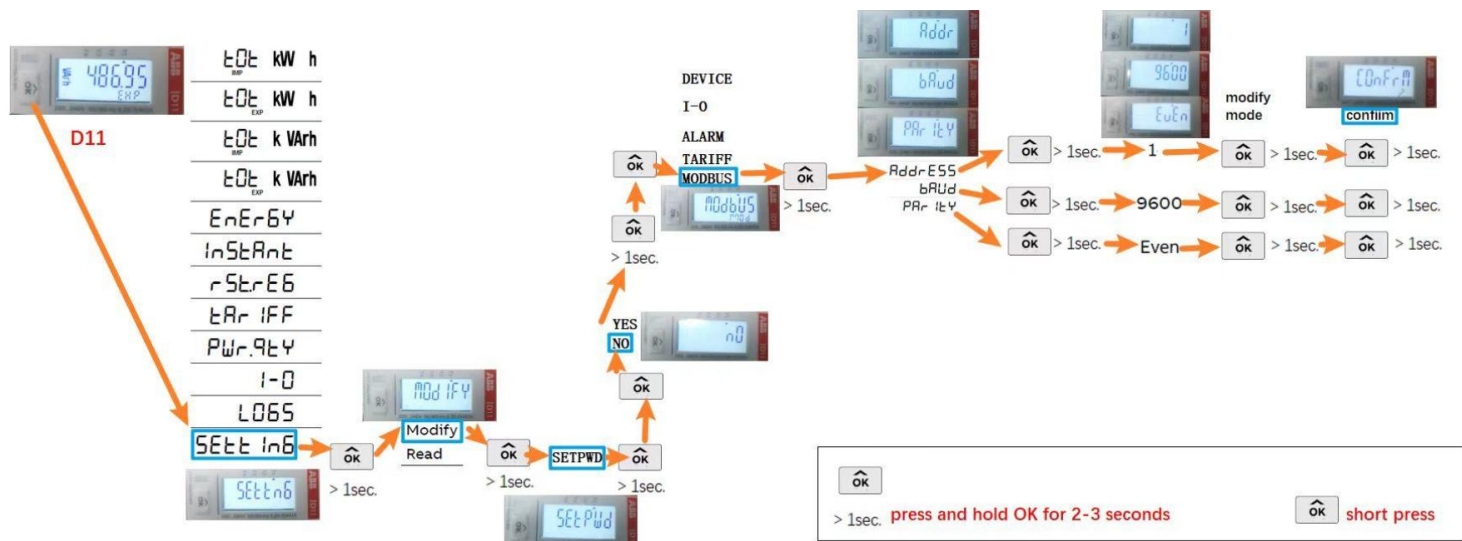
Install the Energy meter after the main switch and before the distribution cabinet with Earth-leakage circuit breakers and circuit breakers. The figure above is an example of a typical residential distribution cabinet (Consumer Unit).

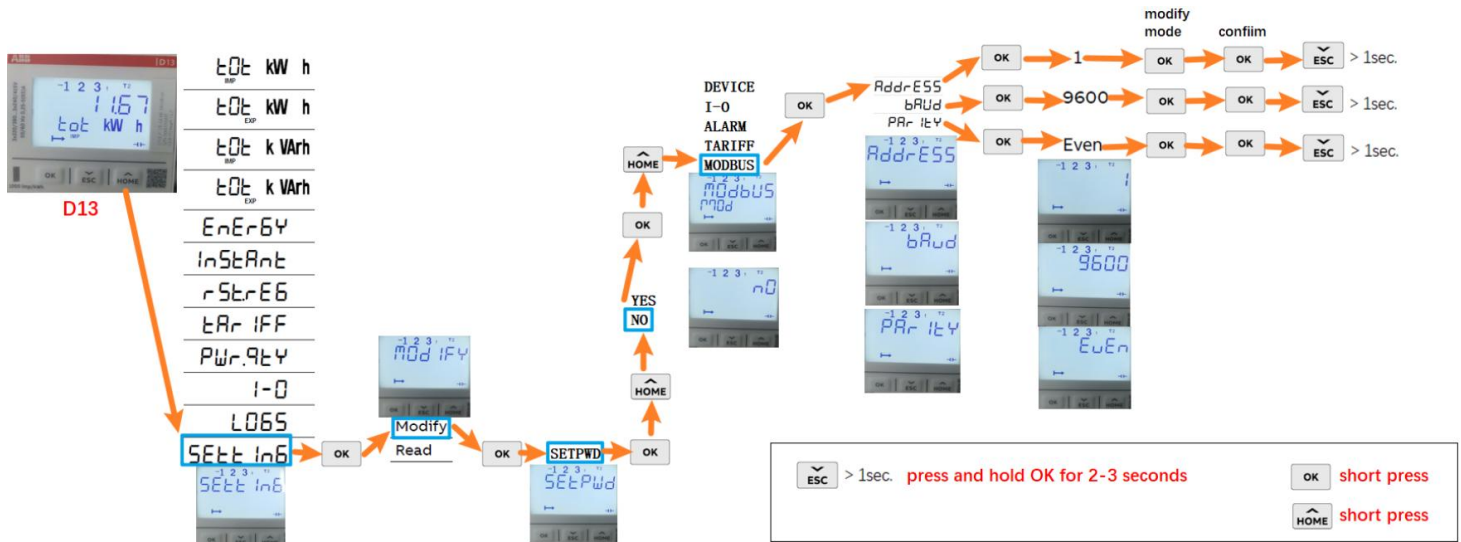
Warning - The Energy meter must always be protected by fuses on the incoming side. See for more information the installation manuals of the Energy meter.



Energy Meter configuration – no change needed

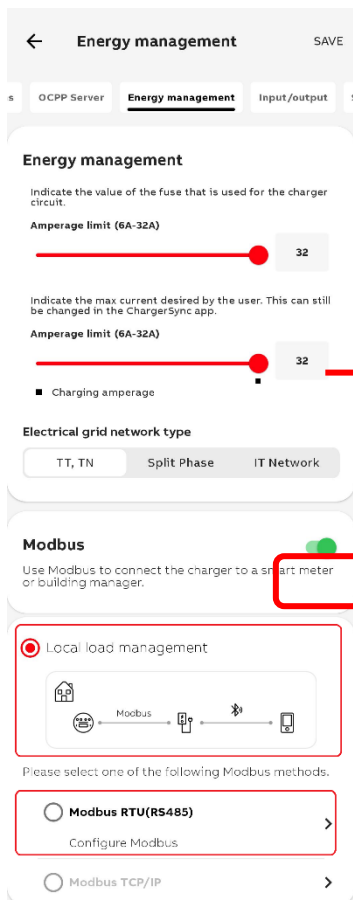
Figure below shows the default factory settings of the Energy meter. They are the correct settings for load management and should not be changed.





TerraConfig commissioning App – for load management

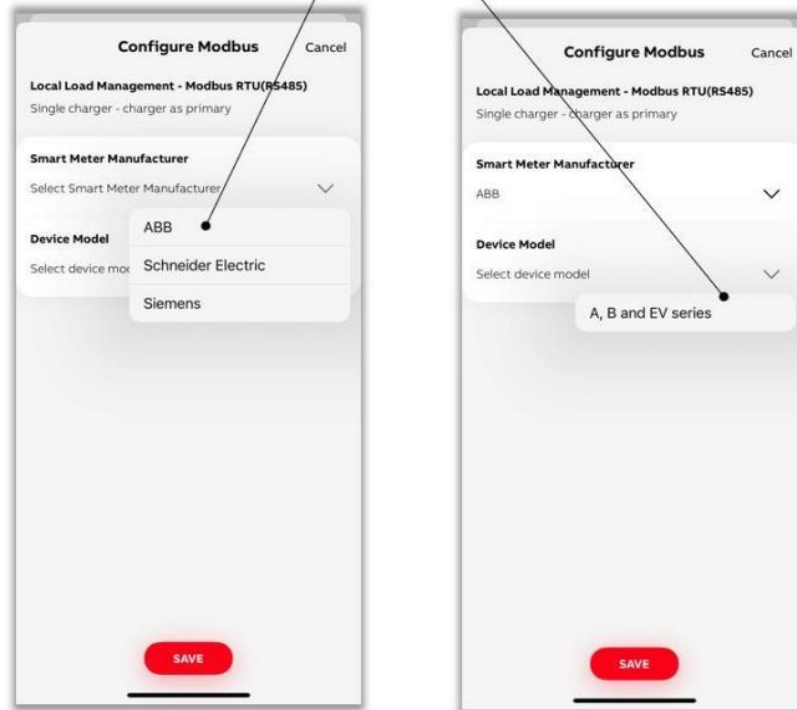
For general EV charging settings please see online tutorial – link to the website [TerraConfig App - Overview \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-App-Overview)



Load Management:
Select Local Load Management
Select: RTU(RS485)

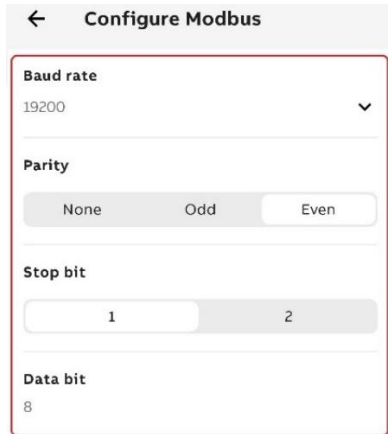
Do **NOT** set the user settable max current

Example of
selecting ABB meter



Select '**ABB**' in the **SmartMeter Manufacturer** dropdown menu.

Select correct models in the **Device Model** dropdown menu.



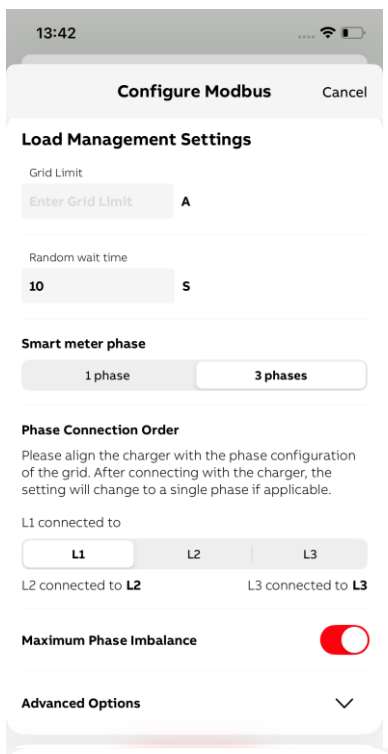
Set the **Baud Rate** to '9600'

Set the **Parity** to 'Even'

Stop bit must be 1 and **Data bit** must be 8

NOTE

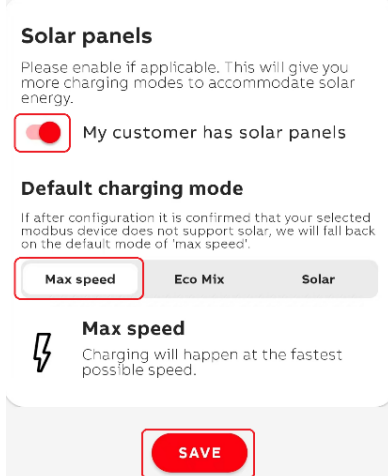
Energy meter and EV Charger should have the same values.



Grid limit: maximum limit (in Ampere) of the grid connection for which load balancing should be done. Before setting this value, check the main fuse of the residential installation. This value should not be set higher than the main fuse!



To review 'Smart meter phase' and 'Phase connection order' to be in line with installation setup and local regulation.



NOTE:

IF solar panels are present, only select Max speed
Never select EcoMix or Solar

Push **SAVE** button to store the settings.

Please end with confirm configuration to store the configuration on the EV charger.

For advanced settings/ instruction please follow the link [TerraConfig App - Overview \(Chargedot.com\)](https://www.chargedot.com/TerraConfigApp-Overview) and go to Energy management / and follow the tabs.



- Onboarding to TerraConfig ☐
- Commissioning a charger ☐
- Select & connect a charger ☐
- Configure settings ☐
- Firmware update ☐
- Network connection ☐
- OCCP server - External backoffice ☐
- Energy management ☒**
- Input/Output ☐
- Charging RFID cards ☐

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate. Maximum delta (in Ampere) between two separate phases that is to be pursued Limit after which charger will react by decreasing the power output by a significant amount Limit after which charger will react by decreasing the power output by a small amount Limit after which charger will react by increasing the power output by a small amount Charger output limit when there is no network Connection/meter connection lost 			

Load management

български

Това Ръководство за бързо инсталиране (QIG) описва накратко най-важните стъпки за инсталиране и конфигуриране за функционалността за Load Management на зарядното устройство EV. Това Ръководство за бързо инсталиране не замества на ръководството за инсталиране на производителя на зарядното устройство EV и електромера, той е допълнение към тези документи. По-подробна информация е налична в Ръководството за инсталиране на зарядното устройство EV Charger и Ръководството за инсталиране на уреда за измерване на енергия. Това Ръководство за бързо инсталиране е предназначено за ползване от квалифицирани електротехници (инсталатори), които отговарят за инсталирането на зарядното устройство EV и електромера за целите на функционалността на Load Management.

Преди да инсталирате функцията Load Management, внимателно и задълбочено прочетете това Ръководство за бързо инсталиране. Следвайте инструкциите в това Ръководство за бързо инсталиране. Chargedot не носи отговорност за каквито и да е щети, причинени от неспазване или неправилно следване и изпълнение на инструкциите, описани в това Ръководство за бързо инсталиране.

Обща информация:



- **Внимание** – Електрическото оборудване трябва да се инсталира, да позволява достъп, да се обслужва и поддържа единствено от квалифициран електротехнически персонал.
- Електрическата инсталация трябва да бъде проектирана и изградена в съответствие с местното законодателство и правилата за безопасност и ел. оборудване.
- Преди да започнете монтажни работи, се уверете, че главният превключвател на разпределителния шкаф (потребителска единица) е поставен в положение ИЗКЛ. Проверете напрежението, за да се уверите, че електрическото захранване е изключено.

Отказ от отговорност

Информацията в този документ подлежи на промяна без предизвестие и не трябва да се тълкува като ангажимент от Chargedot не поема отговорност за грешки, които могат да се съдържат в този документ. В никакъв случай Chargedot не носи отговорност за преки, косвени, специални, случайни или последващи щети от естество или вид, произтичащи от използването на този документ. Също така Chargedot не носи отговорност за случайни или последващи вреди, произтичащи от използването на софтуер или хардуер, описани в този документ.

 **Внимание** – Работата с високо напрежение потенциално може да доведе до смърт. Хората, изложени на високо напрежение, могат да претърпят спиране на сърдечната дейност, телесни или други тежки наранявания. За да избегнете подобни наранявания, не забравяйте да изключите захранването, преди да започнете инсталация.

 **Внимание** – От съображения за безопасност се препоръчва оборудването да се монтира по начин, който прави невъзможно случайното достигане или докосване на клемните блокове. Най-добрият начин за безопасна инсталация е да монтирате модула в корпус. Освен това достъпът до оборудването трябва да бъде ограничен посредством използване на катинар и ключ, контролирани от квалифициран електротехнически персонал.

 **Внимание** – Не работете с оборудването извън посочените технически данни.

Изисквания за инсталиране – За да отговаря на изискванията за защита, електромерът трябва да бъде монтиран в корпус с клас на защита IP 51 или по-добър, съгласно IEC 60259.

Внимание – Внимавайте, за да предотвратите попадане на течност в измервателния уред и зарядното устройство EV, тъй като това може да повреди оборудването.
Гаранцията и точността са невалидни, ако са премахнати запечатващите етикети.

Това ръководство е приложимо за следните модели зарядни устройства EV, за които се препоръчва да бъдат комбинирани с посочените модели електромери:

Зарядна станция за ЕП			Електромер		
Номер на част по Chargedot	Модел	Трифазен или еднофазен	Номер на част по ABB	Модел	Трифазен или еднофазен
6AGC082155	Terra AC W7-G5-R-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC082156	Terra AC W11-G5-R-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC082158	Terra AC W22-G5-R-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC105906	Terra AC W7-S-R-C-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC082154	Terra AC W22-S-R-C-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC082157	Terra AC W22-G5-R-C-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC081282	Terra AC W22-S-RD-MC-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118141	Terra AC W7-S-R	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118142	Terra AC-W11-S-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118143	Terra AC W22-S-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118144	Terra AC W7-G5-R	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118145	Terra AC W22-G5-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118146	Terra AC W7-S-R-C	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118147	Terra AC W22-S-R-C	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118148	Terra AC W22-S-RD-MC	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118149	Terra AC-W11-T-RD-PC	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118155	Terra AC W7-S-R	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118156	Terra AC-W11-S-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118157	Terra AC W22-S-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118158	Terra AC W7-G5-R	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118159	Terra AC W22-G5-R	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118160	Terra AC W7-S-R-C	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC118161	Terra AC W22-S-R-C	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118162	Terra AC W22-S-RD-MC	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC118163	Terra AC-W11-T-RD-PC	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128169	Terra AC W7-G5-R-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128178	Terra AC W7-G5-R-C-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128177	Terra AC W7-S-R-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128176	Terra AC W7-S-R-C-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128175	Terra AC W11-G5-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128174	Terra AC W11-S-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128173	Terra AC W22-G5-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен

6AGC128172	Terra AC W22-G5-R-C-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128171	Terra AC W22-S-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128170	Terra AC W22-S-R-C-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128195	Terra AC E7-S-R-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128196	Terra AC E7-S-R-C-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128197	Terra AC E7-G5-R-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128198	Terra AC E7-G5-R-C-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128199	Terra AC E11-S-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128200	Terra AC E11-G5-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128201	Terra AC E22-S-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128202	Terra AC E22-S-R-C-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128203	Terra AC E22-G5-R-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128204	Terra AC E22-G5-R-C-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Еднофазен	2CMA100155R1000	B21 312-100	Еднофазен
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Трифазен	2CMA100166R1000	B23 212-100	Трифазен

Модели на електромери

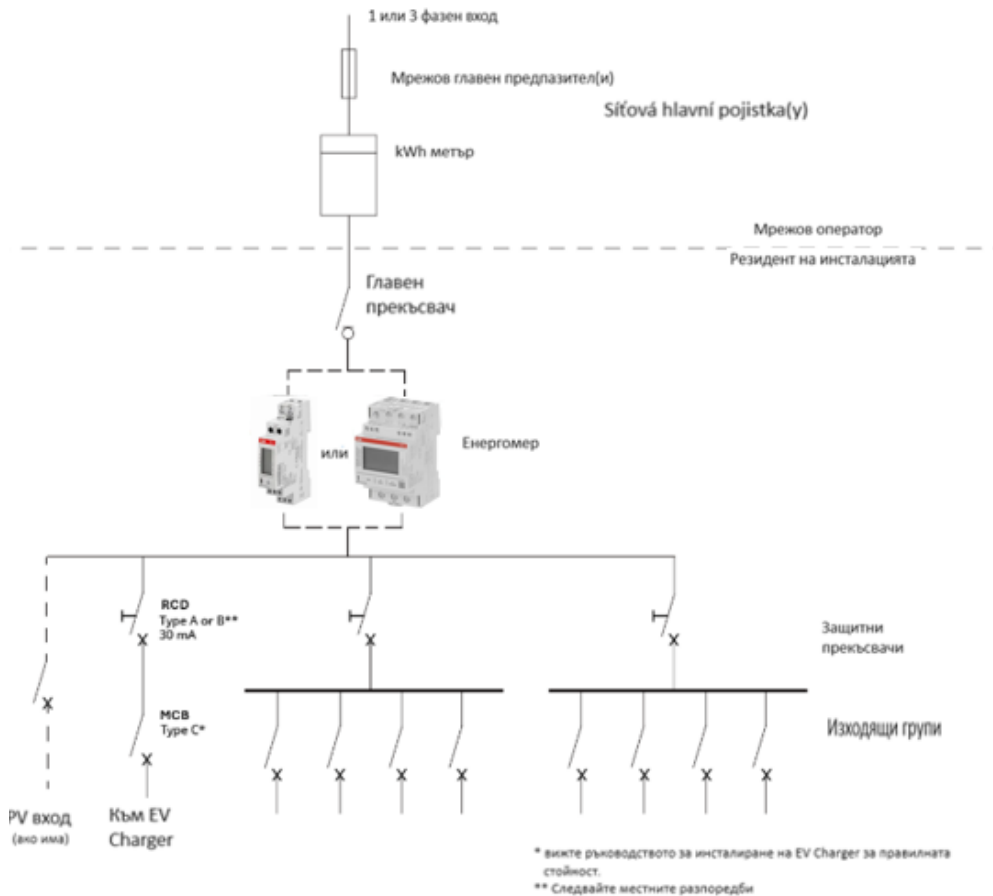
За еднофазни зарядни устройства EV
Номер на част ABB: 2CMA241665R1000
Model: D11 15-M 40 Modbus
[D11 15-M 40 Modbus | ABB](#)



За трифазни зарядни устройства EV
Номер на част ABB: 2CMA241765R1000
Model: D13 15-M 65 Modbus
[D13 15-M 65 Modbus | ABB](#)



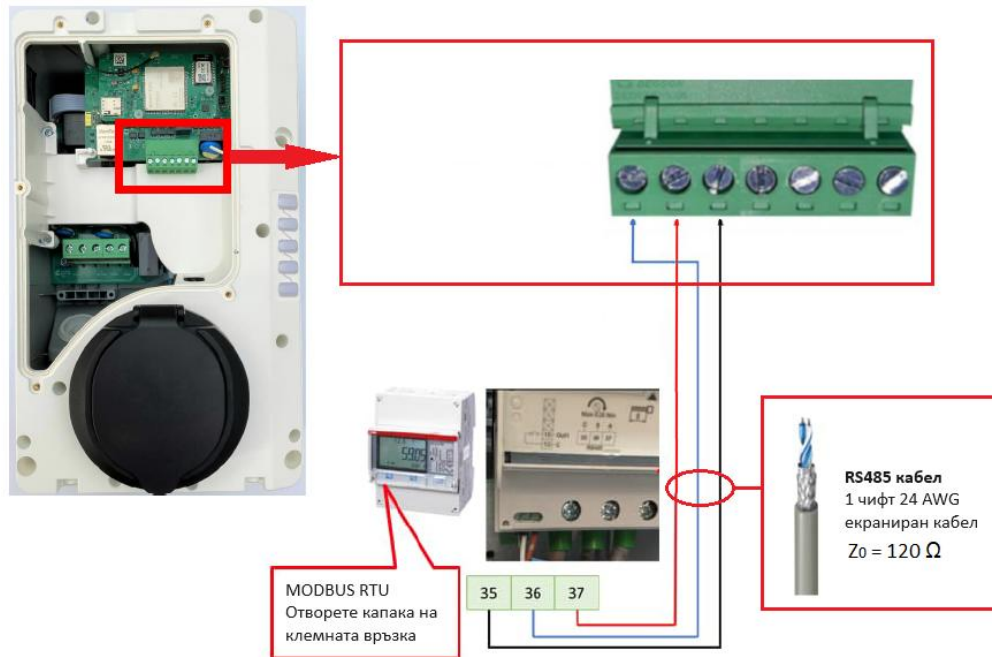
За механична и електрическа инсталация на електромера, използвайте включените инструкции за монтаж (могат да бъдат намерени в опаковката на електромера) или изтеглете ръководствата на използвания електромер от връзката [Изтегляне на налични документи по-горе](#).



Главният ключ е само за безопасно изключване по време на монтажа. Електромерът може да бъде поставен навсякъде, където измерва общата консумация на домакинството – ако вашият диференциален прекъсвач може да изключи захранването, той работи и като главен ключ.

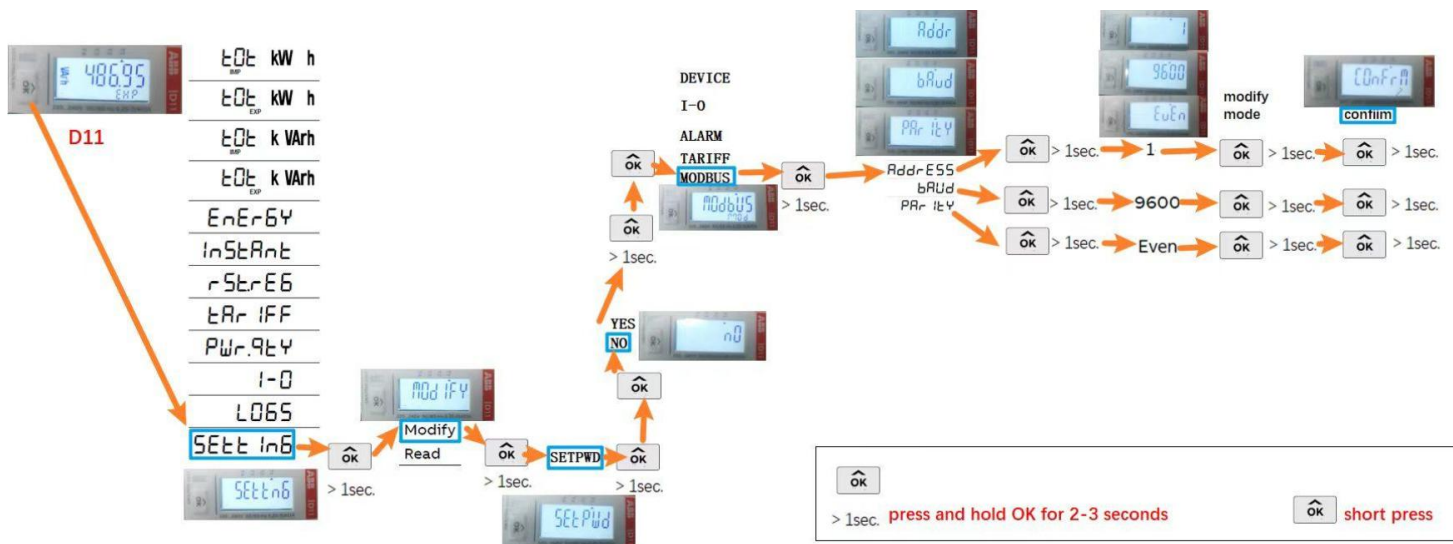
Инсталирайте електромера след главния прекъсвач и преди разпределителния шкаф с прекъсвачи за ток на утечка към земя и електрически прекъсвачи. Фигурата по-горе е пример за типичен жилищен разпределителен шкаф (модул с приложение за потребителя).

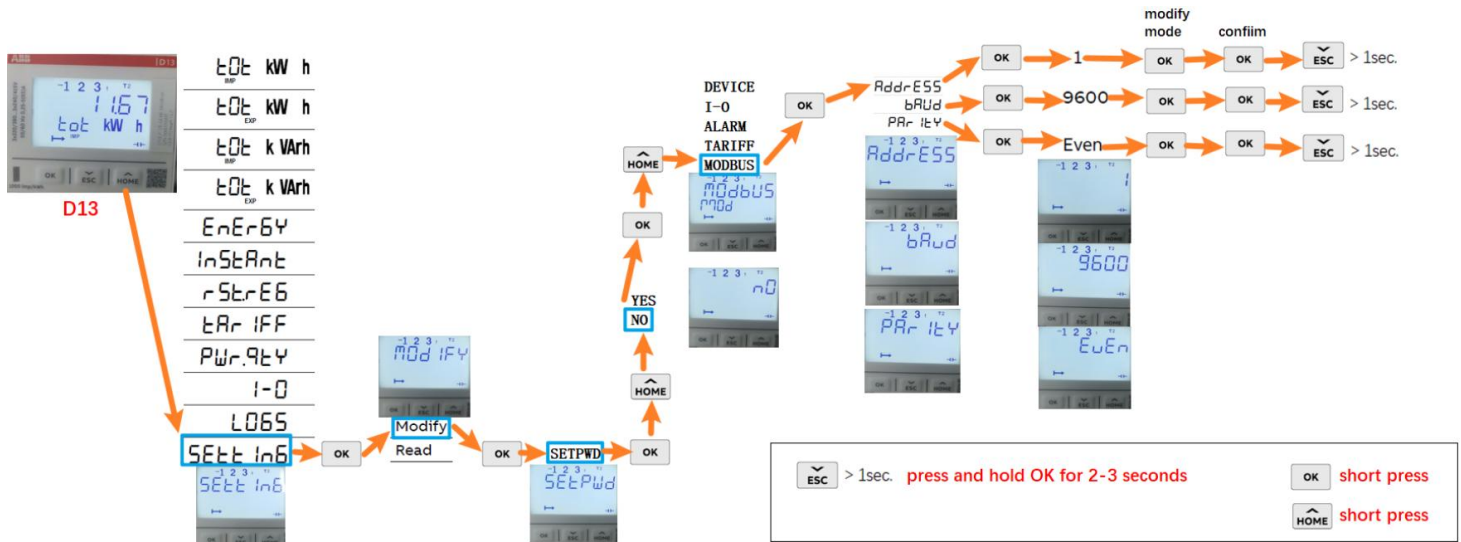
Внимание – Електромерът трябва винаги да бъде защитен с предпазители от към входящата страна. За повече информация вижте ръководствата за инсталиране на електромери.



Конфигурация на електромер – не е необходима промяна

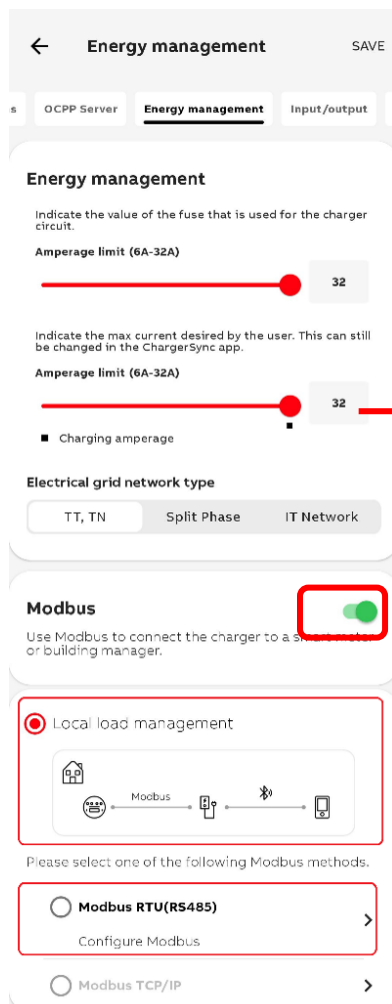
Фигурата по-долу показва фабричните настройки на електромера по подразбиране. Това са правилните настройки за Load Management и не трябва да се променят.





Приложение за въвеждане в експлоатация на TerraConfig – за Load Management

За общи настройки за зареждане EV, моля, вижте онлайн сесия за обучение – връзка към уебсайта [TerraConfig App - Overview \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-App-Overview)

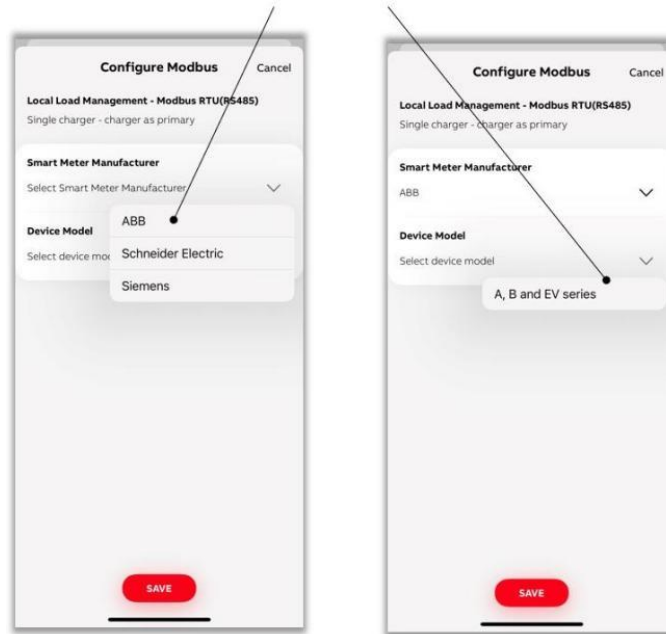


Load Management:
Изберете Local Load Management
Изберете: RTU(RS485)

Не зададете потребителския максимален ток

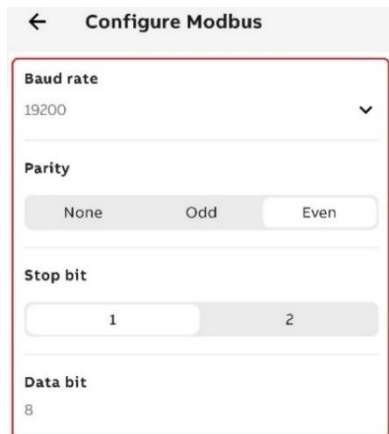
Пример за избор на измервателен уред ABB

Example of selecting ABB meter



Изберете „**ABB**” в падащото меню **SmartMeter Manufacturer**.

Изберете правилни модели в падащото меню **Device Model** (модел на устройството).



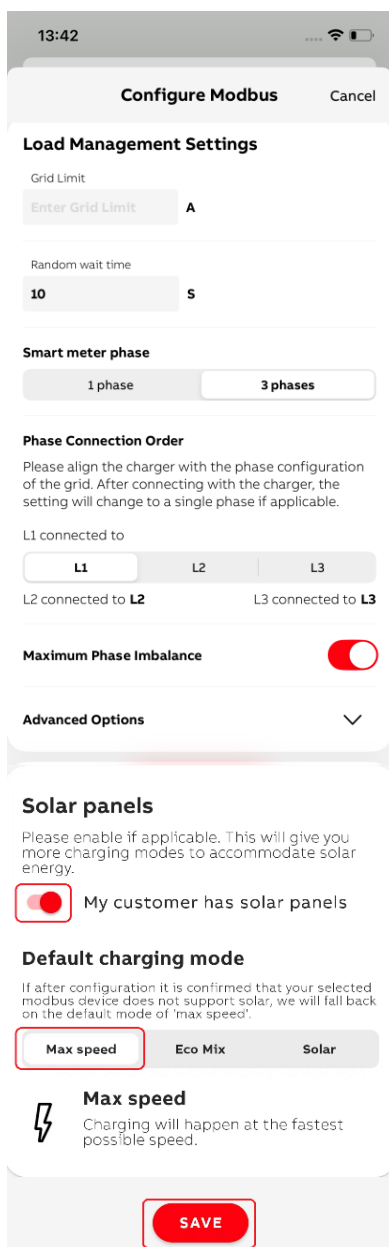
Задайте **Baud Rate** (Скорост на предаване в бодове) като **"9600"**

Задайте **Parity** (Четност) като **"Even"** (Четно)

Stop bit (Стоп бит) трябва да е 1 и **Data bit** (информационен бит) трябва да е 8

ЗАБЕЛЕЖКА

Интелигентният електромер и зарядното устройство EV трябва да имат еднакви стойности.



Ограничение за мрежата: максималната гранична стойност (в амperi) на мрежовата връзка, за която трябва да се направи балансиране на товара. Преди да зададете тази стойност, проверете главния предпазител на жилищната инсталация. Тази стойност не трябва да се задава на стойност по-висока от тази на главния предпазител!



За съответствие с настройката на инсталацията и местните разпоредби, прегледайте „Фаза на интелигентния електромер“ и „Ред на свързване на фазите“.

ЗАБЕЛЕЖКА:

Ако има слънчеви панели, изберете само максимална скорост
Никога не избирайте EcoMix или Solar

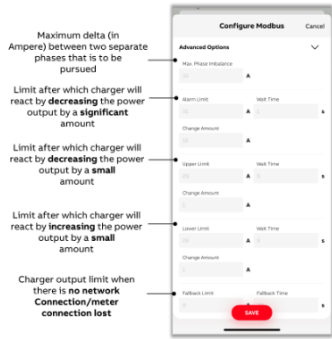
За да запазите настройките, натиснете бутона **SAVE** (Запазване).

За да съхраните конфигурацията на зарядното устройство EV, завършете с потвърждаване на конфигурацията.

За разширени настройки/инструкции, моля, следвайте връзката [TerraConfig App - Overview \(Chargedot.com\)](https://Chargedot.com/TerraConfigApp-Overview) и отидете на Управление на енергията / и следвайте разделите.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Hrvatski

Ovaj Vodič za brzu instalaciju (QIG) ukratko opisuje najvažnije korake instalacije i konfiguracije za funkciju Load management EV punjača. Ovaj Vodič nije zamjena za proizvođačev priručnik za instalaciju EV punjača i električnog brojila, on je dodatak tim dokumentima. Detaljnije informacije dostupne su u priručniku za instalaciju EV punjača i priručniku za instalaciju električnog brojila. Ovaj Vodič namijenjen je kvalificiranim električarima (instalaterima) koji su odgovorni za instalaciju EV punjača i električnog brojila radi korištenja funkcije Load management.

Prije instaliranja funkcije Load management pažljivo i pozorno pročitajte ovaj Vodič. Slijedite upute u ovom Vodiču. Chargedot nije odgovoran za bilo kakvu štetu koja je uzrokovana nepraćenjem ili neispravnim praćenjem i izvršavanjem uputa opisanih u ovom Vodiču.

Općenito:



- **Upozorenje** – Električnu opremu smiju instalirati, pristupati joj, servisirati je i održavati samo kvalificirani električari.
- Električna instalacija mora biti projektirana i izvedena u skladu s lokalnim zakonima, sigurnosnim i električnim propisima.
- Uvjerite se da je glavna sklopka razvodnog ormara (potrošačke jedinice) postavljena u položaj OFF (isključeno) prije početka instalacijskih radova. Provjerite napon kako biste bili sigurni da je električno napajanje isključeno.

Odricanje odgovornosti

Informacije u ovom dokumentu podložne su promjenama bez prethodne najave i ne smiju se tumačiti kao obveza tvrtke Chargedot ne preuzima odgovornost ni za kakve pogreške koje se mogu pojaviti u ovom dokumentu.

Chargedot ni u kojem slučaju neće biti odgovoran za izravnu, neizravnu, posebnu, slučajnu ili posljedičnu štetu bilo koje prirode ili vrste koja proizlazi iz korištenja ovog dokumenta, niti će Chargedot biti odgovoran za slučajnu ili posljedičnu štetu koja proizlazi iz upotrebe softvera ili hardvera opisanog u ovom dokumentu.

⚠ Upozorenje – Rad s visokim naponom je potencijalno smrtonosan. Osobe izložene visokom naponu mogu doživjeti srčani zastoj, opekline ili druge teške ozljede. Kako biste izbjegli takve ozljede, svakako odspojite napajanje prije početka instalacije.

⚠ Upozorenje – Iz sigurnosnih razloga preporučuje se da se oprema instalira na način koji onemogućuje slučajno dosezanje ili dodirivanje terminalnih blokova.

Najbolji način za sigurnu instalaciju je ugradnja jedinice u kućište. Nadalje, pristup opremi trebao bi biti ograničen upotrebom brave i ključa, nad kojima nadzor imaju kvalificirani električari.

⚠ Upozorenje – Ne koristite opremu izvan navedenih tehničkih podataka.

Zahtjevi za instalaciju – Kako bi se ispunili zahtjevi zaštite, električno brojila mora biti montirano u kućište klase zaštite IP 51 ili bolje, prema IEC 60259.

Oprez – Pazite da tekućina ne uđe u brojilo i EV punjač jer može oštetiti opremu.

Jamstvo i točnost poništavaju se ako se uklone pečatne naljepnice.

Ovaj priručnik primjenjiv je za sljedeće modele EV punjača i preporučuje se njihovo kombiniranje s navedenim modelima električnih brojila:

Punjač za EV			Brojilo energije		
Chargedot broj dijela	Model	Trofazni ili jednofazni	ABB broj dijela	Model	Trofazni ili jednofazni
6AGC082155	Terra AC W7-G5-R-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC082156	Terra AC W11-G5-R-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC082158	Terra AC W22-G5-R-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC105906	Terra AC W7-S-R-C-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC082154	Terra AC W22-S-R-C-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC082157	Terra AC W22-G5-R-C-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC081282	Terra AC W22-S-RD-MC-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118141	Terra AC W7-S-R	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118142	Terra AC-W11-S-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118143	Terra AC W22-S-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118144	Terra AC W7-G5-R	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118145	Terra AC W22-G5-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118146	Terra AC W7-S-R-C	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118147	Terra AC W22-S-R-C	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118148	Terra AC W22-S-RD-MC	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118149	Terra AC-W11-T-RD-PC	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118155	Terra AC W7-S-R	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118156	Terra AC-W11-S-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118157	Terra AC W22-S-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118158	Terra AC W7-G5-R	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118159	Terra AC W22-G5-R	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118160	Terra AC W7-S-R-C	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC118161	Terra AC W22-S-R-C	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118162	Terra AC W22-S-RD-MC	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC118163	Terra AC-W11-T-RD-PC	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128169	Terra AC W7-G5-R-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128178	Terra AC W7-G5-R-C-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128177	Terra AC W7-S-R-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128176	Terra AC W7-S-R-C-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128175	Terra AC W11-G5-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128174	Terra AC W11-S-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128173	Terra AC W22-G5-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128171	Terra AC W22-S-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128170	Terra AC W22-S-R-C-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128195	Terra AC E7-S-R-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128196	Terra AC E7-S-R-C-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128197	Terra AC E7-G5-R-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128198	Terra AC E7-G5-R-C-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128199	Terra AC E11-S-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128200	Terra AC E11-G5-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128201	Terra AC E22-S-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128202	Terra AC E22-S-R-C-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128203	Terra AC E22-G5-R-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Jednofazni	2CMA100155R1000	B21 312-100	Jednofazni
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trofazni	2CMA100166R1000	B23 212-100	Trofazni

Modeli električnog brojila

Za 1-fazne EV punjače

ABB broj dijela: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Za 3-fazne EV punjače

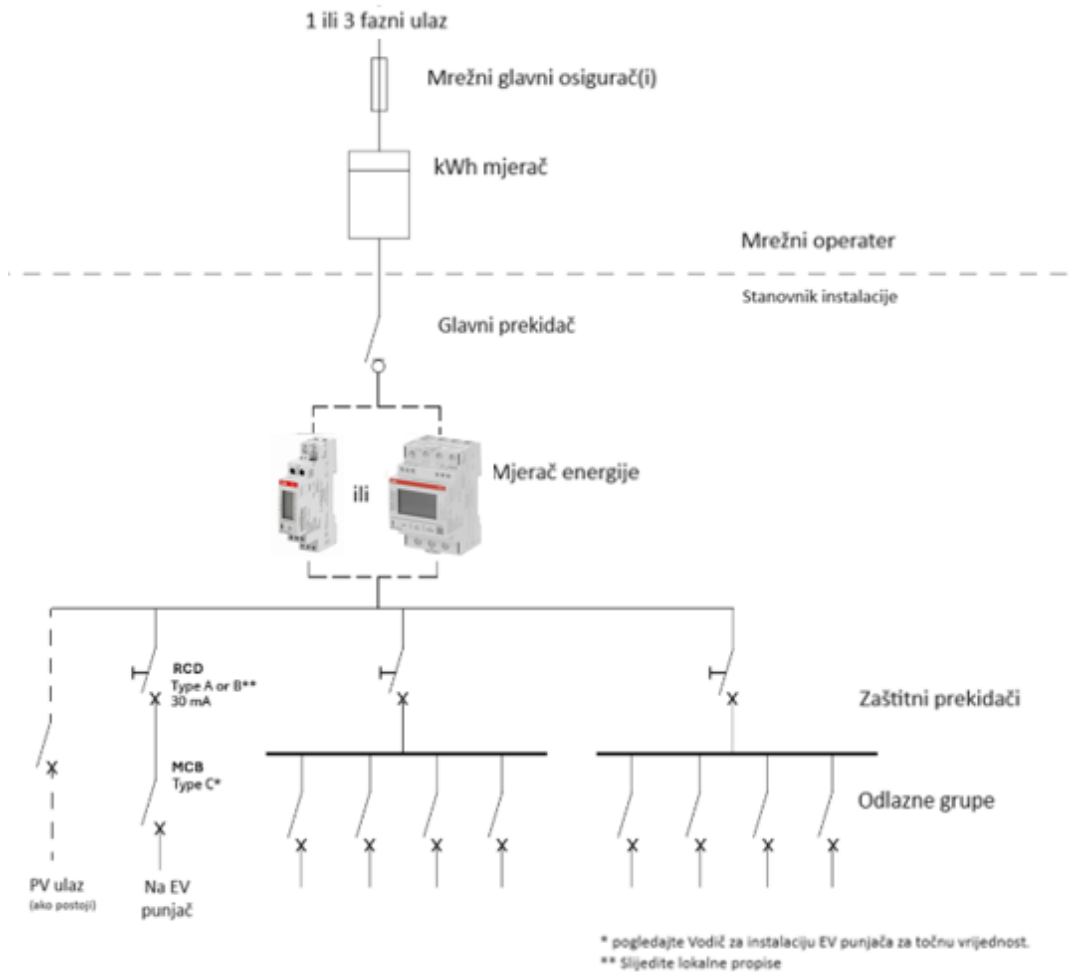
ABB broj dijela: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Za mehaničku i električnu instalaciju električnog brojila koristite priložene upute za instalaciju (mogu se pronaći unutar pakiranja električnog brojila) ili preuzmite priručnike za rabljeno električno brojilo na gore navedenoj poveznici *Preuzima dostupne dokumente*.

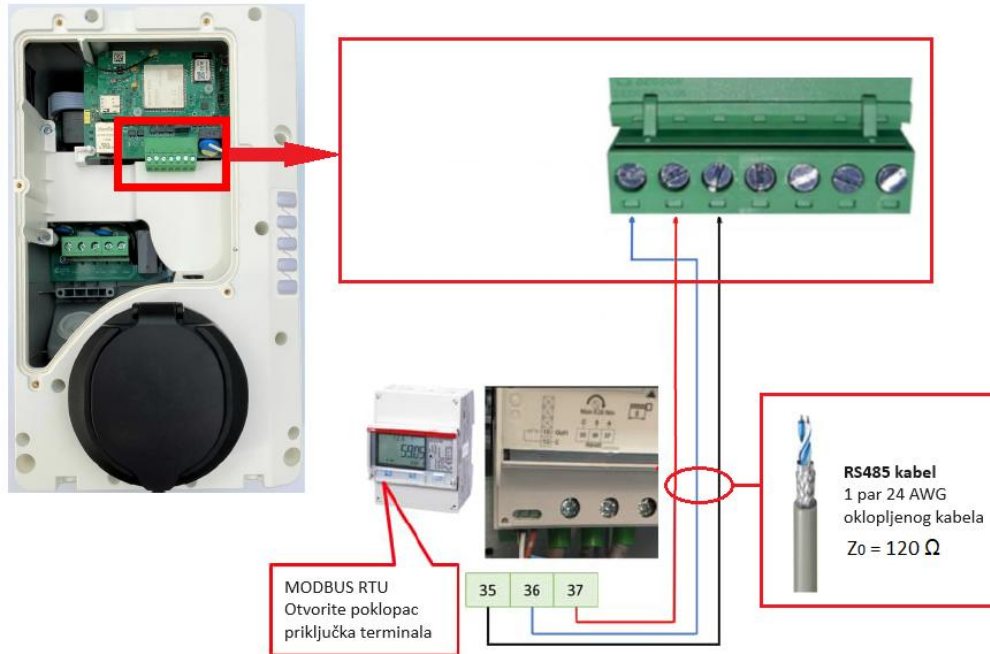


Glavna sklopka služi samo za sigurnosno isključivanje tijekom instalacije. Brojilo električne energije može se postaviti bilo gdje gdje mjeri ukupnu potrošnju kućanstva – ako vaš zaštitni prekidač diferencijalne struje može isključiti napajanje, on funkcionira i kao glavna sklopka.

Instalirajte električno brojilo nakon glavne sklopke i prije razvodnog ormara s prekidačima dozemnog spoja i strujnim prekidačima. Gornja slika primjer je tipičnog stambenog razvodnog ormara (potrošačka jedinica).

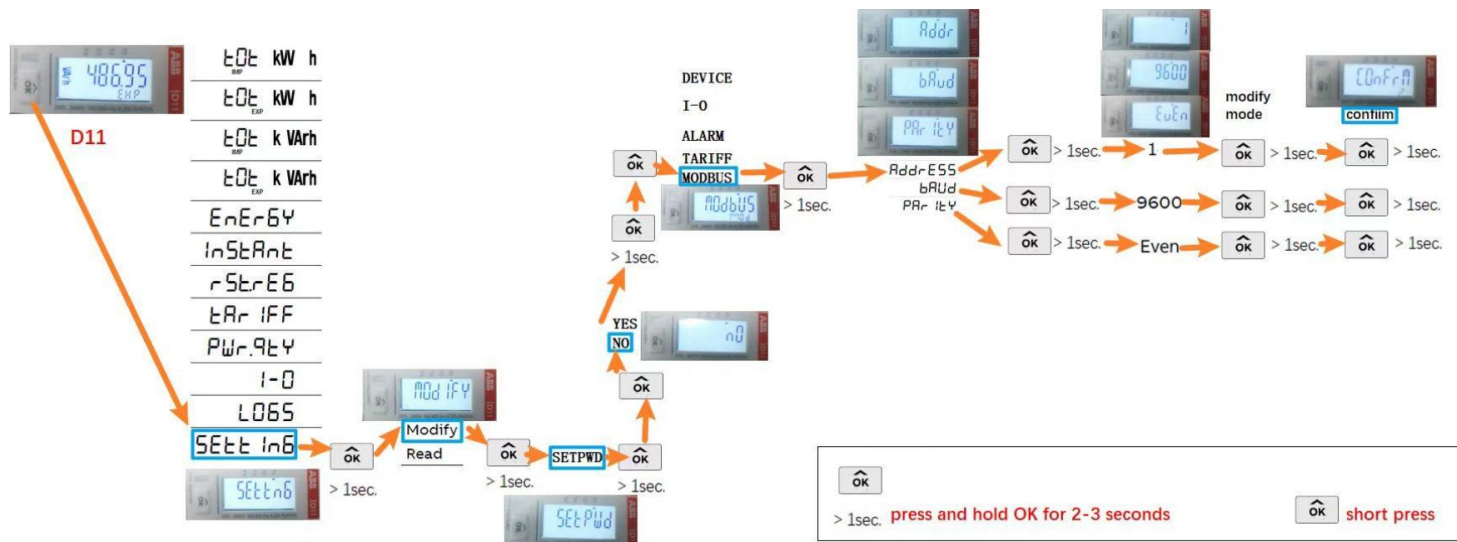


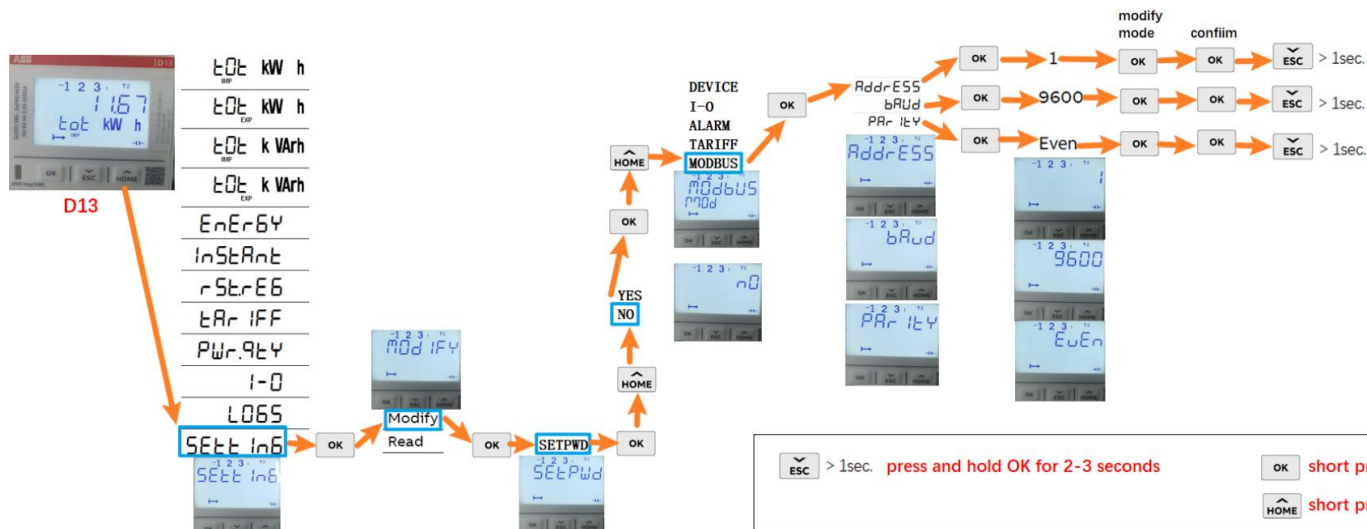
Upozorenje – Električno brojilo uvijek mora biti zaštićeno osiguračima na ulaznoj strani. Za više informacija pogledajte priručnike za instalaciju električnog brojila.



Konfiguracija električnog brojila – nije potrebna promjena

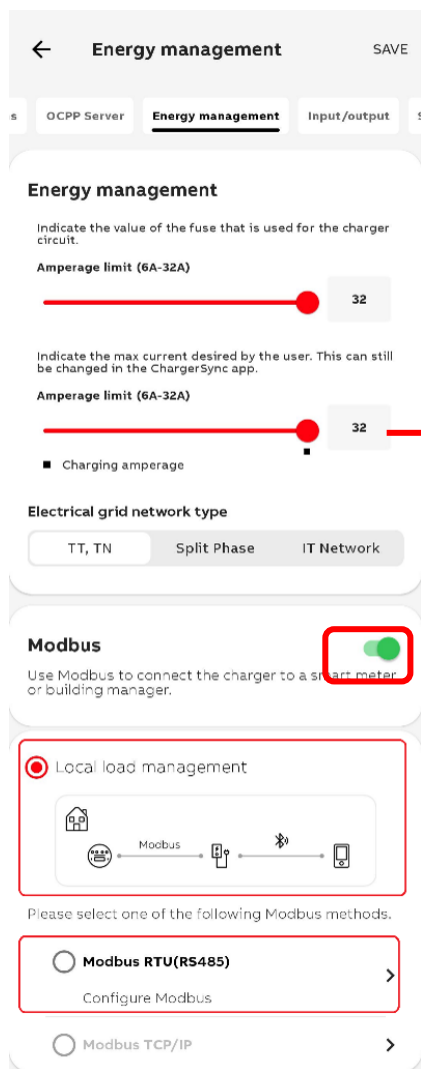
Slika u nastavku prikazuje zadane tvorničke postavke električnog brojila. Ovo su ispravne postavke za Load management i ne bi se trebale mijenjati.





Aplikacija TerraConfig za puštanje u rad – za Load management

Za opće postavke EV punjenja pogledajte online vodič – poveznica na web mjesto [Aplikacija TerraConfig – pregled \(Chargedot.com\)](https://www.chargedot.com)

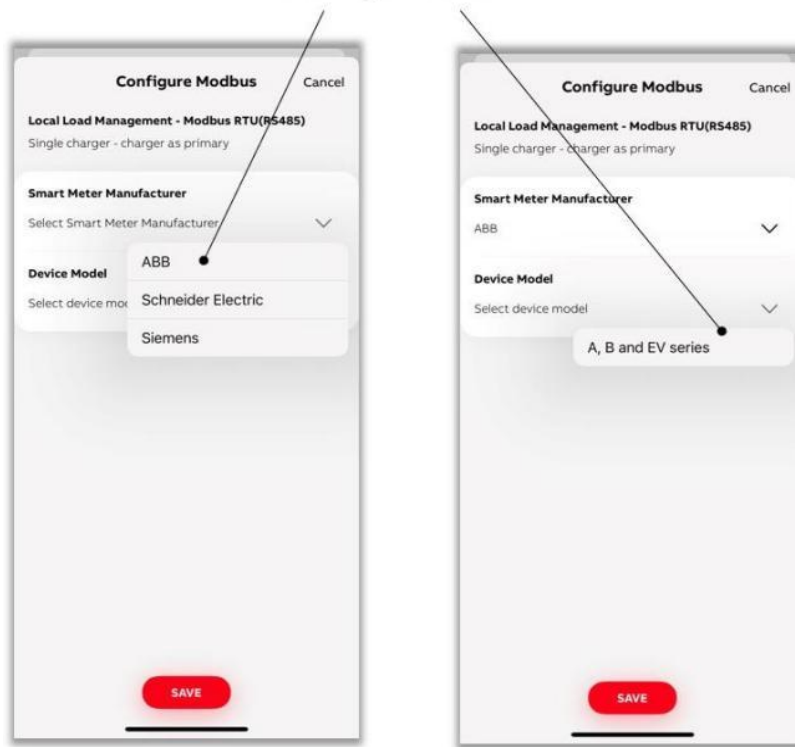


Load Management:
Odaberite Lokalni Load Management
Odaberite: RTU (RS485)

→ postavite korisnika maksimalnu trenutnu

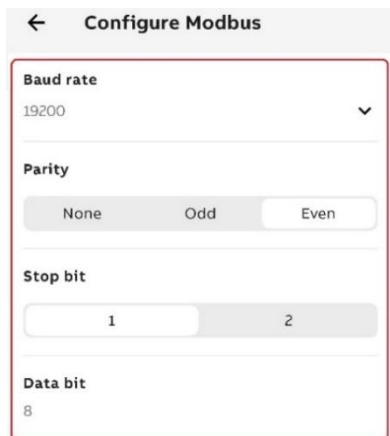
Primjer odabira ABB brojila

Example of selecting ABB meter



Odaberite „**ABB**” na padajućem izborniku **Proizvođač pametnog brojila**.

Odaberite ispravne modele na padajućem izborniku **Model uređaja**.



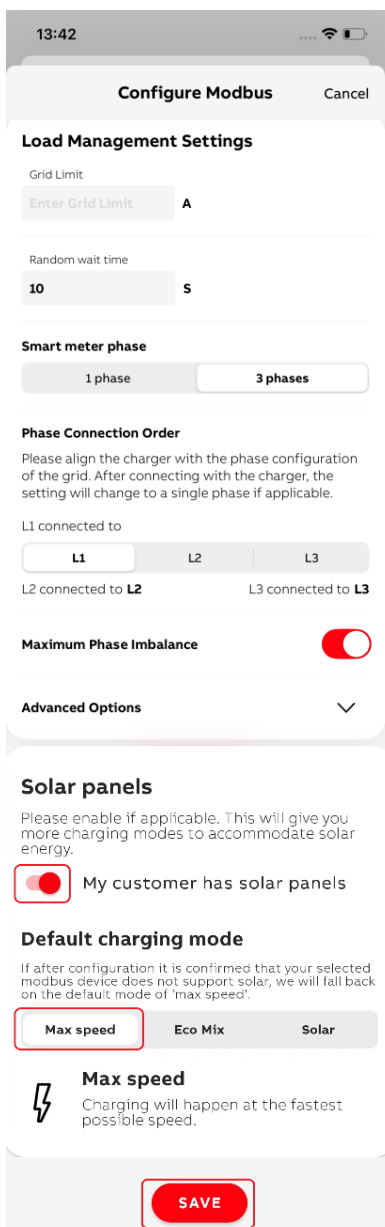
Opciju **Brzina prijenosa podataka** postavite na **"9600"**

Opciju **Paritet** postavite na **"Parno"**

Završni bit mora biti 1, a **Podatkovni bit** mora biti 8

NAPOMENA

Pametno brojilo i EV punjač trebaju imati iste vrijednosti.



Ograničenje mreže: maksimalno ograničenje (u amperima) priključka na mrežu za koji treba izvršiti uravnoteženje opterećenja. Prije postavljanja ove vrijednosti provjerite glavni osigurač stambene instalacije. Ova vrijednost ne smije biti veća od glavnog osigurača!



Provjerite opcije "Faza pametnog brojila" i "Redoslijed spajanja faza" kako bi bile u skladu s postavkama instalacije i lokalnim propisima.

NAPOMENA

Ako su prisutni solarni paneli, odaberite samo maksimalnu brzinu
Nikada ne odaberite Ecomix ili Solar

Pritisnite gumb **SPREMI** za pohranjivanje postavki.

Završite s potvrdom konfiguracije za pohranu konfiguracije na EV punjaču.

Za napredne postavke/upute slijedite poveznicu [Aplikacija TerraConfig - pregled \(Chargedot.com\)](https://www.chargedot.com/Aplikacija_TerraConfig_-_pregled) i idite na Upravljanje energijom te slijedite kartice.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

čeština

Tento průvodce rychlou instalací stručně popisuje nejdůležitější kroky instalace a konfigurace pro funkci správy zátěže nabíječky EV. Tento průvodce rychlou instalací nenahrazuje instalační příručku výrobce nabíječky EV a elektroměru, ale doplňuje tyto dokumenty. Podrobnější informace jsou k dispozici v návodu k instalaci nabíječky EV a návodu k instalaci elektroměru. Tento průvodce rychlou instalací je určen pro použití kvalifikovaným elektrotechnickým personálem (instalačním technikem), který je odpovědný za instalaci nabíječky EV a elektroměru za účelem funkce správy zátěže.

Před instalací funkce správy zátěže si pečlivě a pozorně přečtěte tento průvodce rychlou instalací. Postupujte podle pokynů v tomto průvodci rychlou instalací. Společnost Chargedot nenese odpovědnost za žádné škody, které byly způsobeny nedodržením nebo nesprávným dodržováním a provedením pokynů popsanych v tomto průvodci rychlou instalací.

Obecné:



- **Varování** – Elektrická zařízení smí instalovat, obsluhovat, opravovat a udržovat pouze kvalifikovaní pracovníci v oboru elektro.
- Elektrická instalace by měla být navržena a vyrobena v souladu s místními zákony, bezpečnostními a elektrotechnickými předpisy.
- Před zahájením instalačních prací se ujistěte, že hlavní vypínač rozvodné skříně (spotřebitelské jednotky) je v poloze OFF (Vypnuto). Proveďte kontrolu napětí, abyste se ujistili, že je elektrické napájení vypnuto.

Vyloučení odpovědnosti

Informace v tomto dokumentu se mohou bez upozornění změnit a neměly by být vykládány jako závazek společnosti Chargedot Společnost. Chargedot nepřijímá odpovědnost za žádné chyby, které by se v tomto dokumentu mohly objevit.

Společnost Chargedot v žádném případě neodpovídá za přímé, nepřímé, zvláštní, náhodné nebo následné škody jakékoli povahy nebo druhu vzniklé v důsledku používání tohoto dokumentu, ani za náhodné nebo následné škody vzniklé v důsledku používání jakéhokoli softwaru nebo hardwaru popsaného v tomto dokumentu.

⚠ Varování – Práce s vysokým napětím je potenciálně smrtelná. Osoby vystavené vysokému napětí mohou utrpět zástavu srdce, popálení nebo jiná vážná zranění. Abyste předešli těmto zraněním, před zahájením instalace se ujistěte, že jste odpojili napájení.

⚠ Varování – Z bezpečnostních důvodů se doporučuje instalovat zařízení tak, aby bylo znemožněno náhodné dosažení nebo dotýkání se svorkovnic.

Nejlepší způsob, jak provést bezpečnou instalaci, je nainstalovat jednotku do uzavřeného prostoru. Přístup k zařízení by měl být dále omezen pomocí zámku a klíče, které kontroluje kvalifikovaný elektrotechnický personál.

⚠ Varování – Neprovazujte zařízení mimo specifikovaná technická data.

Požadavky na instalaci – Aby byly splněny požadavky na ochranu, musí být elektroměr namontován v krytech s krytím IP 51 nebo lepším podle normy IEC 60259.

Pozor – Dávejte pozor, aby se do měřiče a nabíječky EV nedostala žádná kapalina, protože by mohla zařízení poškodit.

V případě odstranění pečeti štítků zaniká záruka a přesnost.

Tato příručka platí pro následující modely nabíječek EV a doporučuje se kombinovat s uvedenými modely elektroměrů:

Nabíječka pro EV			Elektroměr		
Chargedot kód dílu	Model	Třífázový nebo jednofázový	ABB kód dílu	Model	Třífázový nebo jednofázový
6AGC082155	Terra AC W7-G5-R-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC082156	Terra AC W11-G5-R-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC082158	Terra AC W22-G5-R-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC105906	Terra AC W7-S-R-C-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC082154	Terra AC W22-S-R-C-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC082157	Terra AC W22-G5-R-C-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC081282	Terra AC W22-S-RD-MC-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118141	Terra AC W7-S-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118142	Terra AC-W11-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118143	Terra AC W22-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118144	Terra AC W7-G5-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118145	Terra AC W22-G5-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118146	Terra AC W7-S-R-C	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118147	Terra AC W22-S-R-C	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118148	Terra AC W22-S-RD-MC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118149	Terra AC-W11-T-RD-PC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118155	Terra AC W7-S-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118156	Terra AC-W11-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118157	Terra AC W22-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118158	Terra AC W7-G5-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118159	Terra AC W22-G5-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118160	Terra AC W7-S-R-C	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118161	Terra AC W22-S-R-C	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118162	Terra AC W22-S-RD-MC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118163	Terra AC-W11-T-RD-PC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128169	Terra AC W7-G5-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128178	Terra AC W7-G5-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128177	Terra AC W7-S-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128176	Terra AC W7-S-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128175	Terra AC W11-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128174	Terra AC W11-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128173	Terra AC W22-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128171	Terra AC W22-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128170	Terra AC W22-S-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128195	Terra AC E7-S-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128196	Terra AC E7-S-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128197	Terra AC E7-G5-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128198	Terra AC E7-G5-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128199	Terra AC E11-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128200	Terra AC E11-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128201	Terra AC E22-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128202	Terra AC E22-S-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128203	Terra AC E22-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový

Modely elektroměrů

Pro 1fázové nabíječky EV

Číslo dílu ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Pro 3fázové nabíječky EV

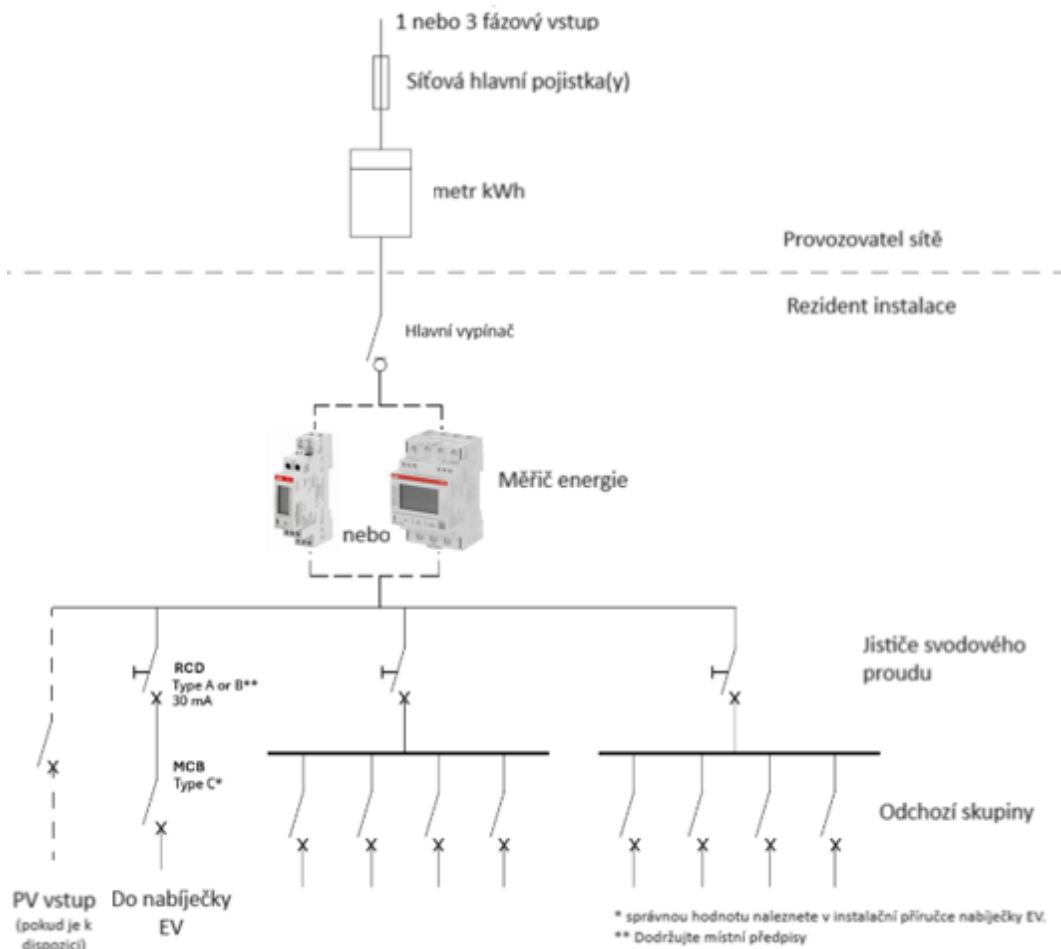
Číslo dílu ABB: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Pro mechanickou a elektrickou instalaci elektroměru použijte přiložený návod k instalaci (najdete v balení elektroměru) nebo si stáhněte návody k použitému elektroměru v odkazu *Stáhnout dostupné dokumenty* výše.

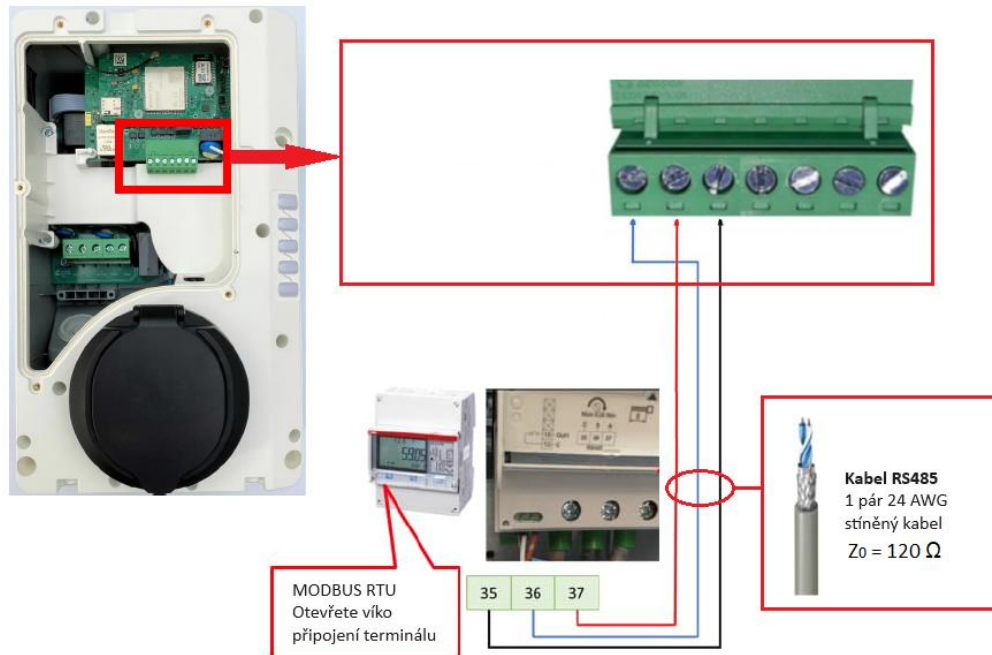


Hlavní vypínač slouží pouze k bezpečnému odpojení během instalace. Elektroměr lze umístit kamkoli, kde měří celkovou spotřebu domácnosti – pokud váš proudový chránič dokáže vypnout napájení, funguje také jako hlavní vypínač.

Elektroměr nainstalujte za hlavní vypínač a před rozvodnou skříň s napěťovými chrániči a elektrickými jističi. Na obrázku výše je příklad typické bytové rozvodné skříně (spotřebitelské jednotky).

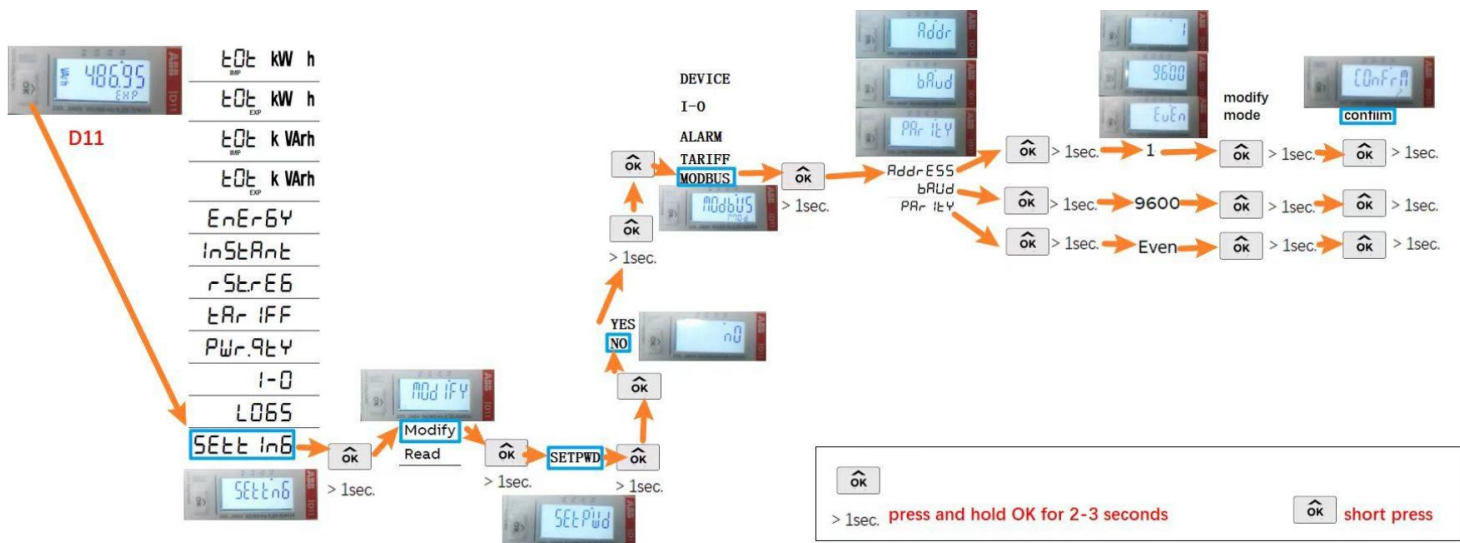


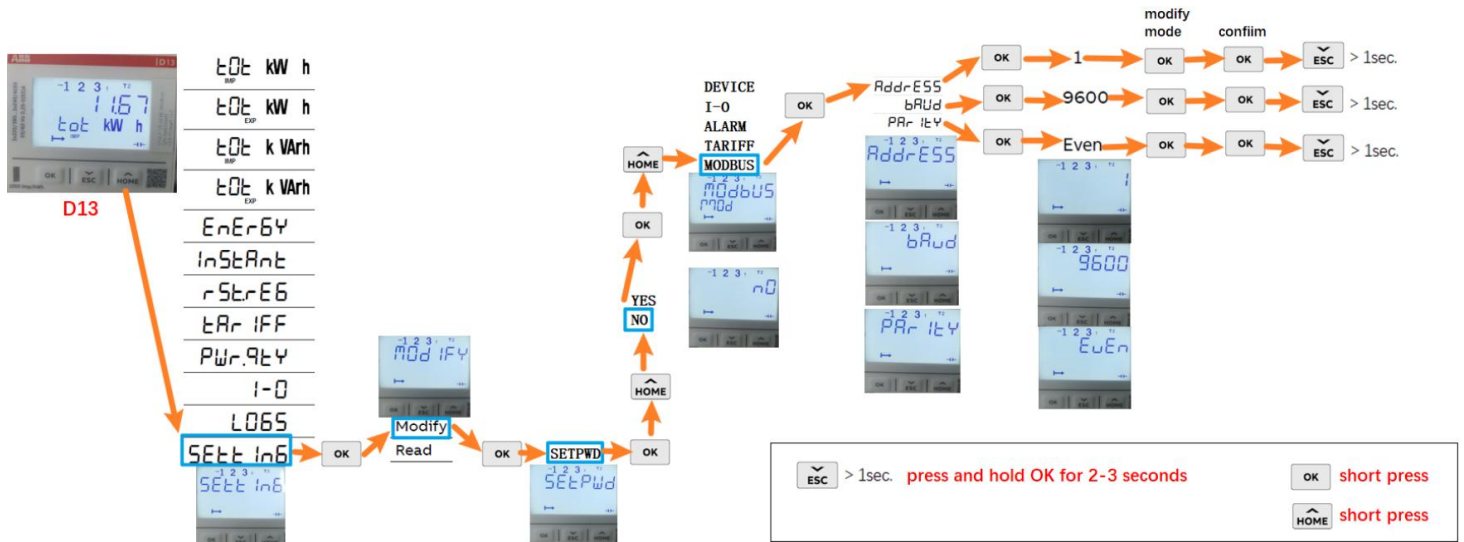
Varování – Elektroměr musí být vždy chráněn pojistkami na vstupní straně. Další informace naleznete v instalačních příručkách elektroměru.



Konfigurace elektroměru – není nutná žádná změna

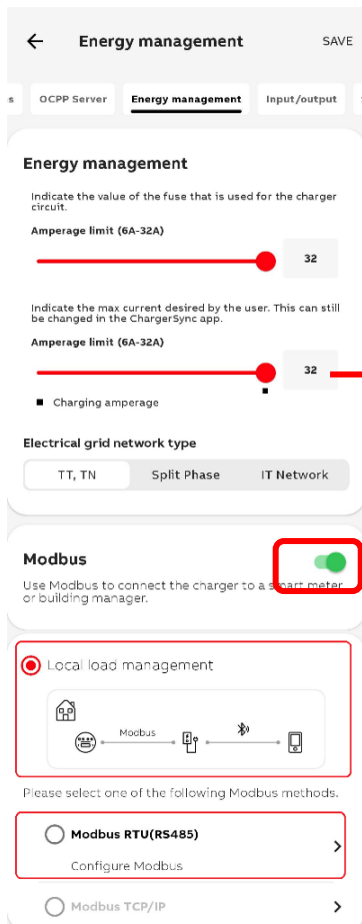
Obrázek níže ukazuje výchozí tovární nastavení elektroměru. Toto jsou správná nastavení pro správu zátěže (Load Management) a neměla by se měnit.





Aplikace TerraConfig pro uvedení do provozu – pro správu zátěže (Load Management)

Obecná nastavení nabíjení EV naleznete v online tutoriálu – odkaz na webovou stránku [Aplikace TerraConfig – přehled \(Chargedot.com\)](http://Aplikace TerraConfig – přehled (Chargedot.com))



Správa zátěže (Load Management):

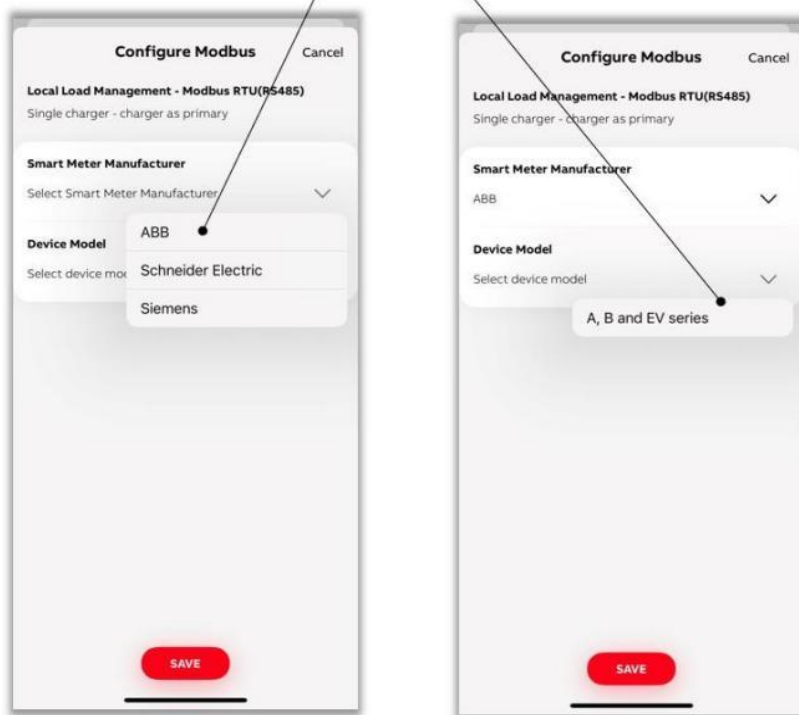
Vyberte možnost Místní správa zátěže (Local Load Management)

Vyberte: RTU (RS485)

Nenastavujte uživatelsky nastavitelný maximální proud

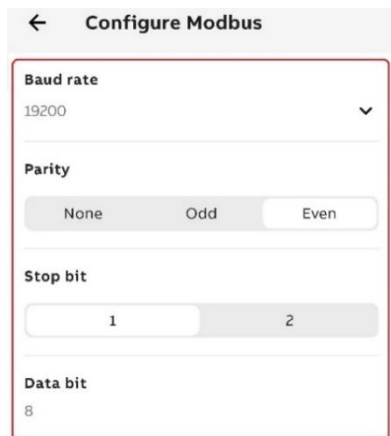
Příklad výběru elektroměru ABB

Example of selecting ABB meter



V rozevírací nabídce **SmartMeter Manufacturer** (Výrobce inteligentního elektroměru) vyberte možnost „**ABB**“.

V rozbalovací nabídce **Device Model** (Model zařízení) vyberte možnost správné modely.



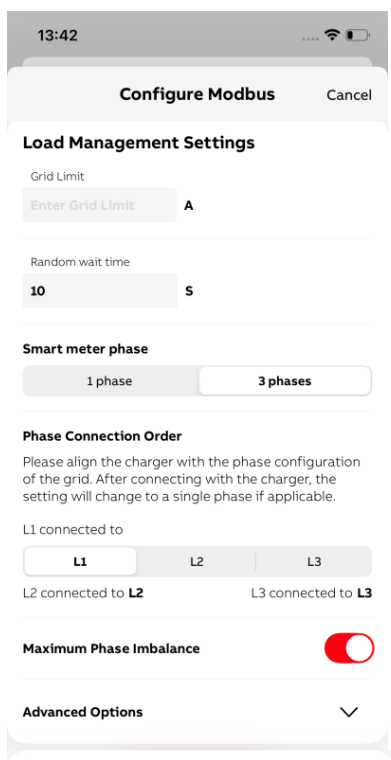
Nastavte **Baud Rate** (Přenosová rychlost) na hodnotu "9600".

Nastavte **Parity** (Parita) na hodnotu „Even“ („Sudá“).

Hodnota **Stop bit** musí být 1 a hodnota **Data bit** musí být 8.

POZNÁMKA

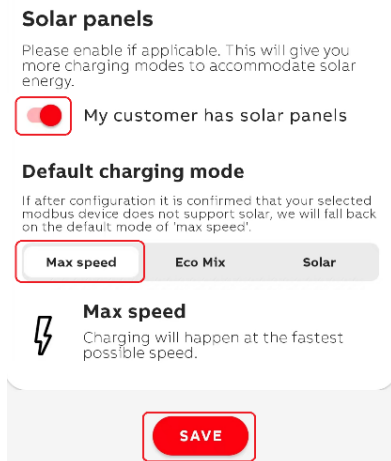
Inteligentní elektroměr a nabíječka EV by měly mít stejné hodnoty.



Limit rozvodné sítě: maximální limit (v ampérech) síťového připojení, pro které by mělo být provedeno vyrovňování zátěže. Před nastavením této hodnoty zkontrolujte hlavní pojistku bytové instalace. Tato hodnota by neměla být vyšší než hlavní pojistka!



Zkontrolujte „Fáze inteligentního elektroměru“ a „Pořadí připojení fáze“, aby byly v souladu s nastavením instalace a místními předpisy.



POZNÁMKA:

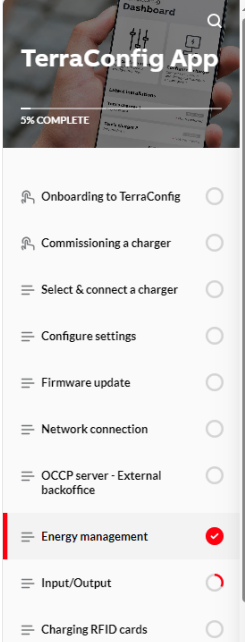
POKUD jsou přítomny solární panely, zvolte pouze maximální rychlost
Nikdy nevybírejte EcoMix nebo Solar

Nastavení uložíte stisknutím tlačítka **SAVE**.

Zakončete prosím potvrzením konfigurace pro uložení konfigurace do nabíječky EV.

Pro pokročilá nastavení/pokyny prosím klikněte na odkaz [Aplikace TerraConfig – přehled \(Chargedot.com\)](https://www.chargedot.com/Aplikace/TerraConfig-%E2%80%93-%E2%80%9A%C4%9B%C4%9B%C4%9B%C4%9B%C4%9B%20(Chargedot.com))

a přejděte na Energy management (Správa energie) / a postupujte podle karet.



ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate. 			

Load management

dansk

Denne hurtige installationsvejledning (Quick Installation Guide (QIG)) beskriver kort de vigtigste installations- og konfigurationstrin for ladeboksens load management-funktionalitet. Denne QIG er ikke en erstatning for producentens installationsmanual til ladeboksen og elmåleren, den er et supplement til disse dokumenter. Der er mere detaljerede oplysninger i installationsvejledningen til ladeboksen og installationsvejledningen til elmåleren. Denne QIG er beregnet til at blive brugt af kvalificerede elektrikere (el-installatører), som er ansvarlige for installationen af ladeboksen og elmåleren med henblik på load management-funktionaliteten.

Før du installerer load management-funktionaliteten, skal du læse denne QIG omhyggeligt. Følg instruktionerne i denne QIG. Chargedot er ikke ansvarlig for nogen skade, der er forårsaget af manglende eller forkert følgen og udførsel af instruktionerne, der er beskrevet i denne QIG.

Generelt:



- **Advarsel** – Elektrisk udstyr bør kun installeres, tilgås, serviceres og vedligeholdes af kvalificeret elektrikerpersonale.
- Den elektriske installation skal designes og konstrueres i overensstemmelse med lokale love, sikkerhed og elektriske forskrifter.
- Sørg for, at hovedafbryderen til el-tavlen (forbrugerenhed) er i OFF-positionen, før installationsarbejdet påbegyndes. Foretag et spændingstjek for at sikre, at den elektriske strøm er slukket.

Ansvarsfraskrivelse

Oplysningerne i dette dokument kan ændres uden varsel og bør ikke opfattes som en forpligtelse fra Chargedot. Chargedot påtager sig intet ansvar for eventuelle fejl, der kan forekomme i dette dokument.

Chargedot er under ingen omstændigheder ansvarlig for direkte, indirekte, særlige eller hændelige skader eller følgeskader af nogen art, der opstår som følge af brugen af dette dokument, og Chargedot er heller ikke ansvarlig for hændelige skader eller følgeskader som følge af brug af software eller hardware, der er beskrevet i dette dokument.

 **Advarsel** – Arbejde med højspænding er potentielt livsfarligt. Personer, der udsættes for højspænding, kan få hjertestop, forbrændinger eller andre alvorlige skader. For at undgå sådanne skader skal du sørge for at afbryde strømforsyningen, før du starter installationen.

 **Advarsel** – Af sikkerhedsmæssige årsager anbefales det, at udstyret installeres på en måde, der gør det umuligt at nå eller røre terminalklemmerne ved et uheld.

Den bedste måde at udføre en sikker installation på er at installere enheden i et kabinet. Yderligere bør adgangen til udstyret begrænses ved brug af lås og nøgle, der kontrolleres af kvalificerede elektrikere.

 **Advarsel** – Anvend ikke udstyret uden for de specificerede tekniske data.

Installationskrav – For at overholde beskyttelseskravene skal elmåleren monteres i indkapslinger i beskyttelsesklasse IP 51 eller bedre i henhold til IEC 60259.

Advarsel – Pas på, at der ikke kommer væske ind i måleren og ladeboksen, da det kan beskadige udstyret.

Garantien og nøjagtigheden bortfalder, hvis forseglingsetiketterne fjernes.

Denne manual gælder for følgende ladeboks-modeller, og det anbefales at kombinere med de angivne elmåler-modeller:

EV-lader			Energimåler		
Chargedot dele-nummer	Model	Tre- eller enfaset	ABB dele-nummer	Model	Tre- eller enfaset
6AGC082155	Terra AC W7-G5-R-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC082156	Terra AC W11-G5-R-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC082158	Terra AC W22-G5-R-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC105906	Terra AC W7-S-R-C-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC082154	Terra AC W22-S-R-C-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC082157	Terra AC W22-G5-R-C-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC081282	Terra AC W22-S-RD-MC-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118141	Terra AC W7-S-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118142	Terra AC-W11-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118143	Terra AC W22-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118144	Terra AC W7-G5-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118145	Terra AC W22-G5-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118146	Terra AC W7-S-R-C	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118147	Terra AC W22-S-R-C	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118148	Terra AC W22-S-RD-MC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118149	Terra AC-W11-T-RD-PC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118155	Terra AC W7-S-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118156	Terra AC-W11-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118157	Terra AC W22-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118158	Terra AC W7-G5-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118159	Terra AC W22-G5-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118160	Terra AC W7-S-R-C	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118161	Terra AC W22-S-R-C	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118162	Terra AC W22-S-RD-MC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118163	Terra AC-W11-T-RD-PC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128169	Terra AC W7-G5-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128178	Terra AC W7-G5-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128177	Terra AC W7-S-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128176	Terra AC W7-S-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128175	Terra AC W11-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128174	Terra AC W11-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128173	Terra AC W22-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128171	Terra AC W22-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128170	Terra AC W22-S-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128195	Terra AC E7-S-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128196	Terra AC E7-S-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128197	Terra AC E7-G5-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128198	Terra AC E7-G5-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128199	Terra AC E11-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128200	Terra AC E11-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128201	Terra AC E22-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128202	Terra AC E22-S-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128203	Terra AC E22-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset

Elmåler-modeller

Til ladebokse med 1 fase

ABB varenummer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Til ladebokse med 3 faser

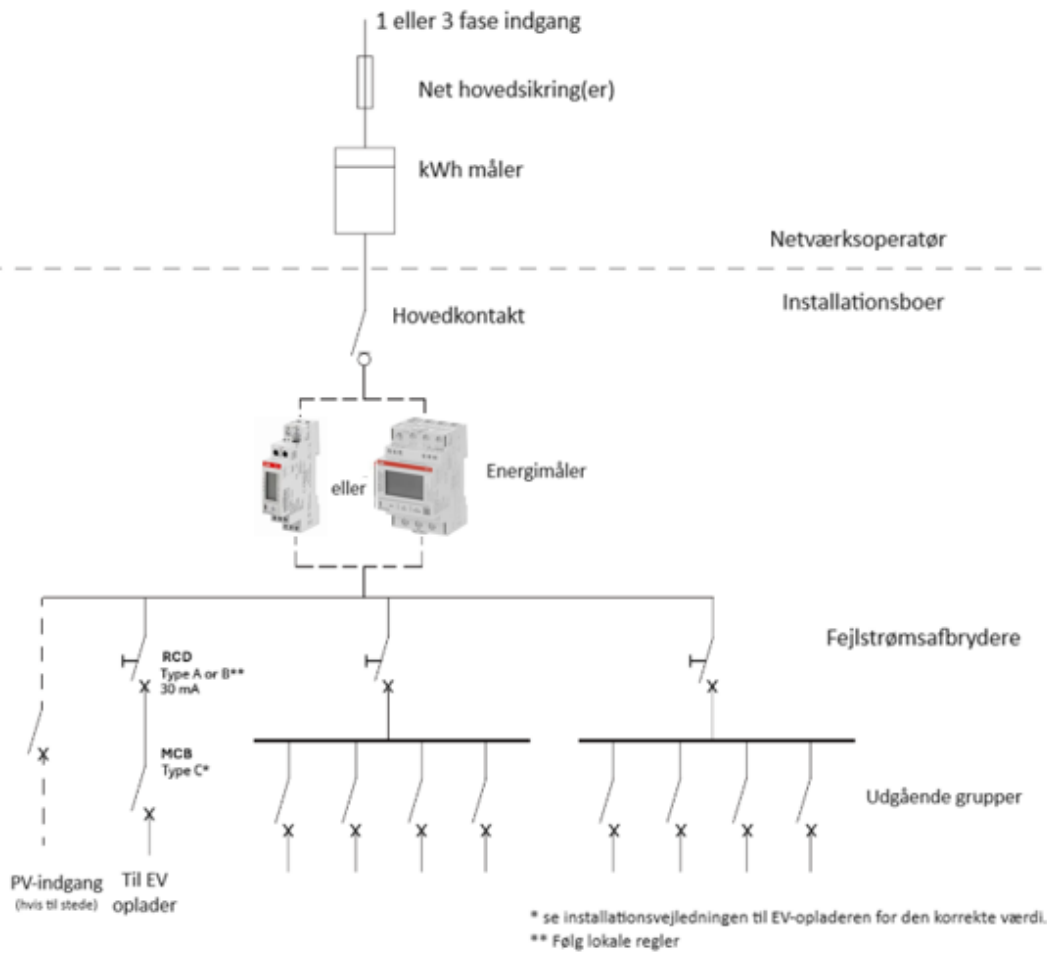
ABB varenummer: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



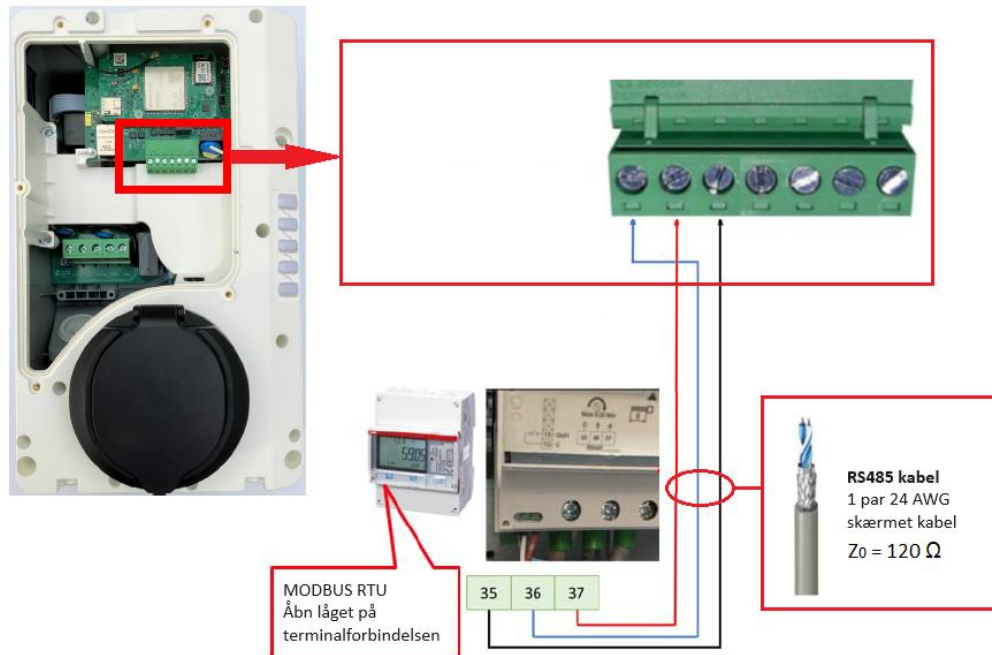
Brug den medfølgende installationsvejledning til den mekaniske og elektriske installation af elmåleren (kan findes i emballagen til elmåleren), eller download manualer til den anvendte elmåler i linket *Download tilgængelige dokumenter* ovenfor.



Hovedafbryderen er kun til sikkerhedsfrakobling under installationen. Energimåleren kan placeres hvor som helst, der måler husstandens samlede forbrug – hvis din fejlstrømsafbryder kan slukke for strømmen, fungerer den også som en hovedafbryder.

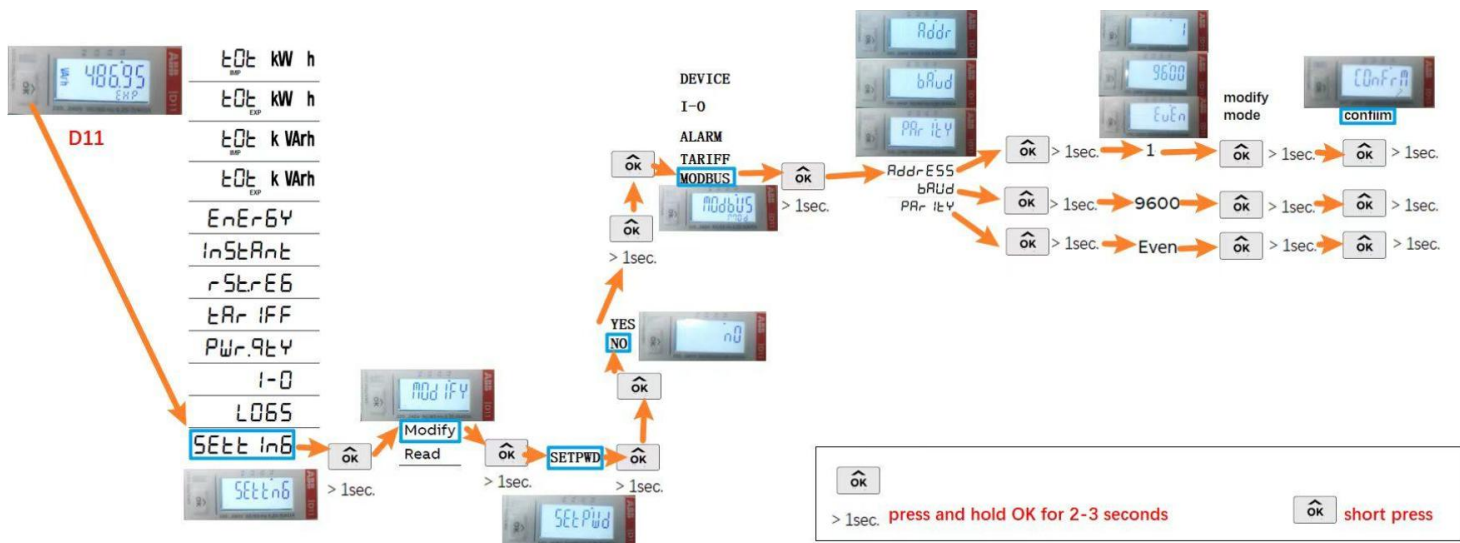
Installer elmåleren efter hovedafbryderen og før el-tavlen med fejlstrømsafbrydere og strømafbrydere. Ovenstående figur er et eksempel på en typisk el-tavle i en bolig (forbruger-enhed).

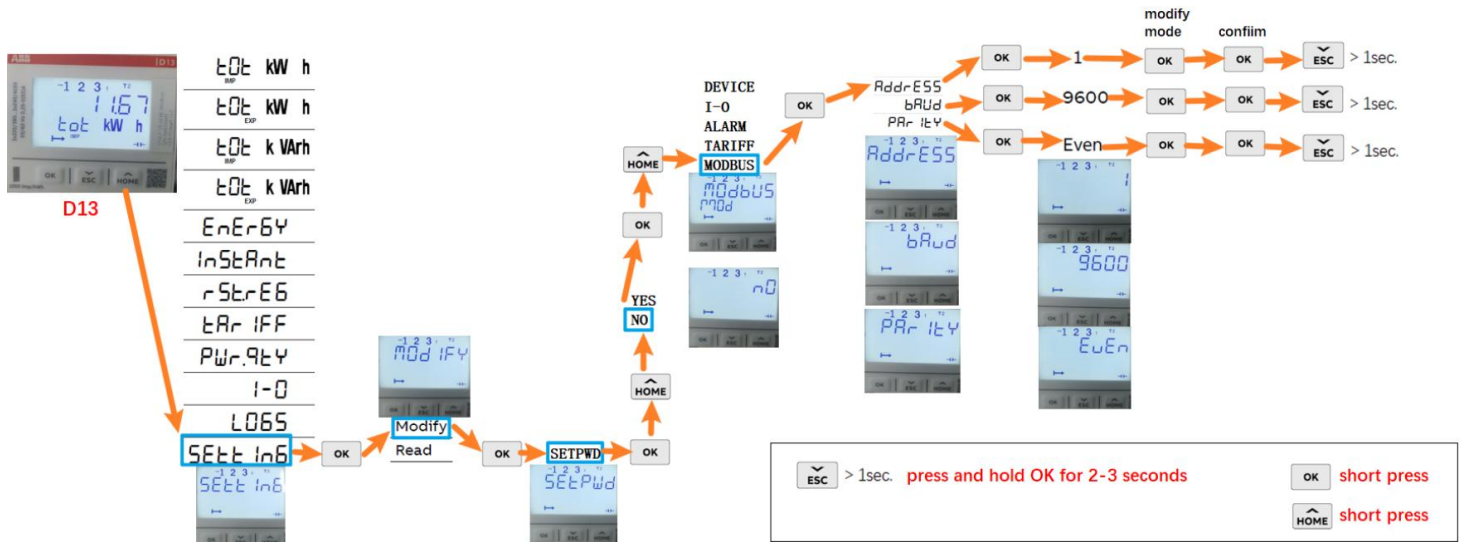
⚠ Advarsel – Elmåleren skal altid være beskyttet af sikringer på den indgående side. Se installationsvejledningerne til elmåleren for mere information.



Elmålerkonfiguration – ingen ændring nødvendig

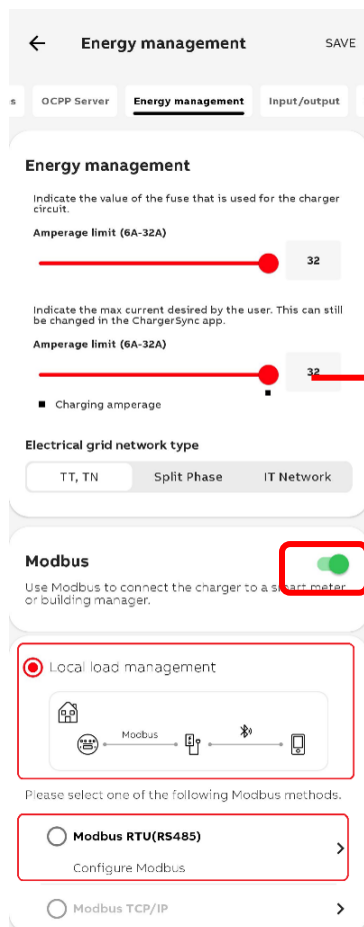
Nedenstående figur viser standard-fabriksindstillingerne for elmåleren. Det er de korrekte indstillinger for load management og bør ikke ændres.





TerraConfig idriftsættelsesapp – til load management

For generelle indstillinger til opladning af elbil henviser vi til onlinevejledningen – link til webstedet [TerraConfig App - Oversigt \(Chargedot.com\)](https://www.chargedot.com)

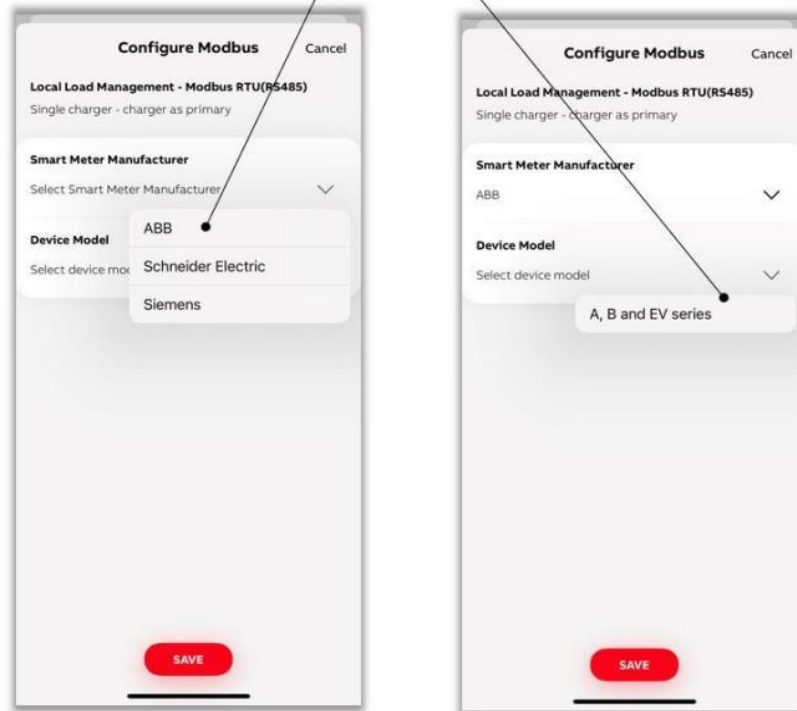


Load management:
Vælg lokal load management
Vælg: RTU(RS485)

Indstil IKKE den brugerindstillede maksimale strøm

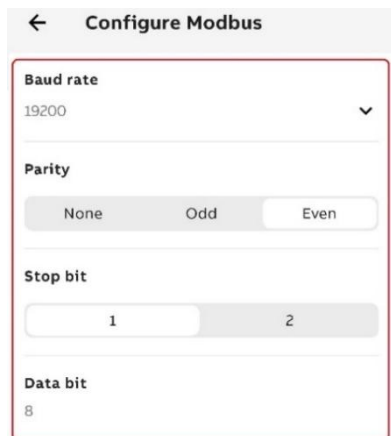
Eksempel på valg
af ABB-måler

Example of
selecting ABB meter



Vælg '**ABB**' i rullemenuen **Smartmåler-producent**.

Vælg korrekte modeller i rullemenuen **Enhedsmodel**.



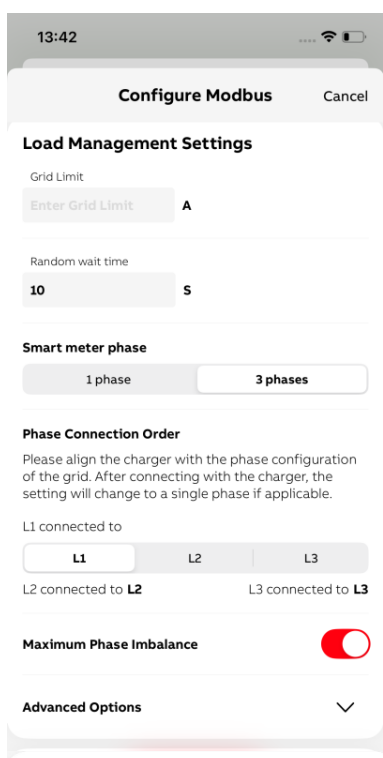
Indstil **Baud-rate** til '9600'

Indstil **Paritet** til 'Lige'

Stopbit skal være 1 og **Databit** skal være 8

BEMÆRK:

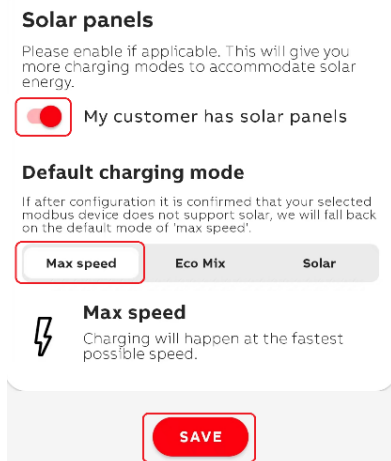
Smartmåler og ladeboks bør have samme værdier.



Netgrænse: maksimal grænse (i ampere) for den nettilslutning, der skal udføres belastningsstyring for. Før du indstiller denne værdi, skal du kontrollere hovedsikringen i boliginstallationen. Denne værdi bør ikke sættes højere end hovedsikringen!



Kontroller, at 'Smartmålerfase' og 'Rækkefølge for faseforbindelse' er i overensstemmelse med installationsopsætningen og lokal lovgivning.



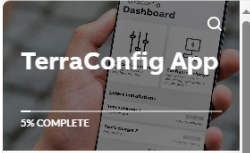
BEMÆRK:

HVIS der er solpaneler til stede, skal du kun vælge maks. hastighed
Vælg aldrig EcoMix eller Solar

Tryk på knappen **GEM** for at gemme indstillingerne.

Afslut med at bekræfte konfigurationen for at gemme konfigurationen på ladeboksen.

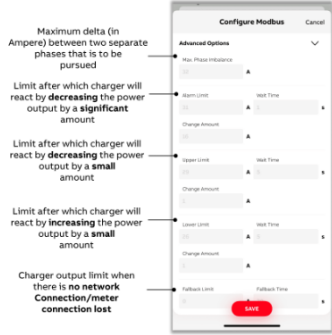
Man kan se avancerede indstillinger/instruktioner ved at følge dette link [TerraConfig App - Oversigt \(Chargedot.com\)](https://www.chargedot.com/TerraConfigApp-Oversigt) og gå til Energistyring / og følge fanerne.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Nederlands

Deze beknopte Installatiegids (QIG) beschrijft in het kort de belangrijkste installatie- en configuratiestappen voor de laadbeheerfunctionaliteit (ook wel load management genoemd) van de EV Lader. Deze QIG is geen vervanging voor de installatiehandleiding van de EV Lader en de energiemeter, maar een aanvulling op deze documenten. Meer gedetailleerde informatie is beschikbaar in de installatiehandleiding van de EV Lader en de installatiehandleiding van de energiemeter. Deze QIG is bedoeld voor gebruik door gekwalificeerd elektrotechnisch personeel (installateur) die verantwoordelijk zijn voor de installatie van de EV Lader en energiemeter ten behoeve van de load management functionaliteit.

Lees deze QIG zorgvuldig en aandachtig door voordat u de functionaliteit voor load management installeert. Volg de instructies in deze QIG. Chargedot is niet verantwoordelijk voor schade die is veroorzaakt door het niet of onjuist opvolgen en uitvoeren van de instructies die in deze QIG worden beschreven.

Algemeen:



- **Waarschuwing** - Elektrische apparatuur mag alleen worden geïnstalleerd, geopend, onderhouden en gerepareerd door gekwalificeerd elektrisch personeel.
- De elektrische installatie moet worden ontworpen en gebouwd volgens de plaatselijke wetgeving, veiligheids- en elektrische voorschriften.
- Zorg ervoor dat de hoofdschakelaar van de verdeelkast (meterkast) op UIT staat voordat u met de installatie begint. Voer een spanningscontrole uit om te controleren of de stroom is uitgeschakeld.

Disclaimer

De informatie in dit document kan zonder voorafgaande kennisgeving worden gewijzigd en dient niet te worden opgevat als een toezegging van Chargedot. Chargedot aanvaardt geen verantwoordelijkheid voor eventuele fouten in dit document.

In geen geval is Chargedot aansprakelijk voor directe, indirecte, speciale, incidentele of gevolgschade van welke aard of soort dan ook die voortvloeit uit het gebruik van dit document, noch is Chargedot aansprakelijk voor incidentele of gevolgschade die voortvloeit uit het gebruik van software of hardware die in dit document wordt beschreven.

 **Waarschuwing** - Werken met hoogspanning kan dodelijk zijn. Personen die worden blootgesteld aan hoogspanning kunnen een hartstilstand, brand verwonden of andere ernstige verwondingen oplopen. Om dergelijke verwondingen te voorkomen, moet u de voeding uitschakelen voordat u met de installatie begint.

 **Waarschuwing** - Om veiligheidsredenen wordt aanbevolen om de apparatuur zo te installeren dat het onmogelijk is om per ongeluk bij de aansluitklemmen te komen of ze aan te raken.

De beste manier voor een veilige installatie is om het apparaat in een behuizing te installeren. Verder moet de toegang tot de apparatuur worden beperkt door het gebruik van een slot en sleutel, gecontroleerd door gekwalificeerd elektrisch personeel.

 **Waarschuwing** - Gebruik de apparatuur niet buiten de gespecificeerde technische gegevens.

Installatievereisten - Om te voldoen aan de beschermingsvereisten moet de energiemeter worden gemonteerd in behuizingen van beschermingsklasse IP 51, of beter, volgens IEC 60259.

Let op - Zorg ervoor dat er geen vloeistof in de energiemeter en de EV Lader terecht kan komen, omdat dit de apparatuur kan beschadigen.

Garantie en nauwkeurigheid komen te vervallen als de verzegeling labels worden verwijderd.

Deze handleiding is van toepassing op de volgende EV Lader modellen en wordt aanbevolen in combinatie met de aangegeven energiemeter modellen:

EV-laadstation			Energienmeter		
Chargedot onderdeelnummer	Model	Driefasig of enkelfasig	ABB onderdeelnummer	Model	Driefasig of enkelfasig
6AGC082155	Terra AC W7-G5-R-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC082156	Terra AC W11-G5-R-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC082158	Terra AC W22-G5-R-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC105906	Terra AC W7-S-R-C-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC082154	Terra AC W22-S-R-C-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC082157	Terra AC W22-G5-R-C-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC081282	Terra AC W22-S-RD-MC-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118141	Terra AC W7-S-R	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118142	Terra AC-W11-S-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118143	Terra AC W22-S-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118144	Terra AC W7-G5-R	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118145	Terra AC W22-G5-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118146	Terra AC W7-S-R-C	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118147	Terra AC W22-S-R-C	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118148	Terra AC W22-S-RD-MC	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118149	Terra AC-W11-T-RD-PC	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118155	Terra AC W7-S-R	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118156	Terra AC-W11-S-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118157	Terra AC W22-S-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118158	Terra AC W7-G5-R	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118159	Terra AC W22-G5-R	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118160	Terra AC W7-S-R-C	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC118161	Terra AC W22-S-R-C	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118162	Terra AC W22-S-RD-MC	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC118163	Terra AC-W11-T-RD-PC	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128169	Terra AC W7-G5-R-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128178	Terra AC W7-G5-R-C-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128177	Terra AC W7-S-R-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128176	Terra AC W7-S-R-C-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128175	Terra AC W11-G5-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128174	Terra AC W11-S-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128173	Terra AC W22-G5-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128172	Terra AC W22-G5-R-C-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128171	Terra AC W22-S-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128170	Terra AC W22-S-R-C-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig

6AGC128861	Terra AC W7-S-RD-MC-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128195	Terra AC E7-S-R-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128196	Terra AC E7-S-R-C-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128197	Terra AC E7-G5-R-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128198	Terra AC E7-G5-R-C-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128199	Terra AC E11-S-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128200	Terra AC E11-G5-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128201	Terra AC E22-S-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128202	Terra AC E22-S-R-C-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128203	Terra AC E22-G5-R-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128204	Terra AC E22-G5-R-C-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Enkelfasig	2CMA100155R1000	B21 312-100	Enkelfasig
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Driefasig	2CMA100166R1000	B23 212-100	Driefasig

Modellen energiemeters

Voor 1 fase EV-laders

ABB Artikelnummer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Voor 3 fase EV-laders

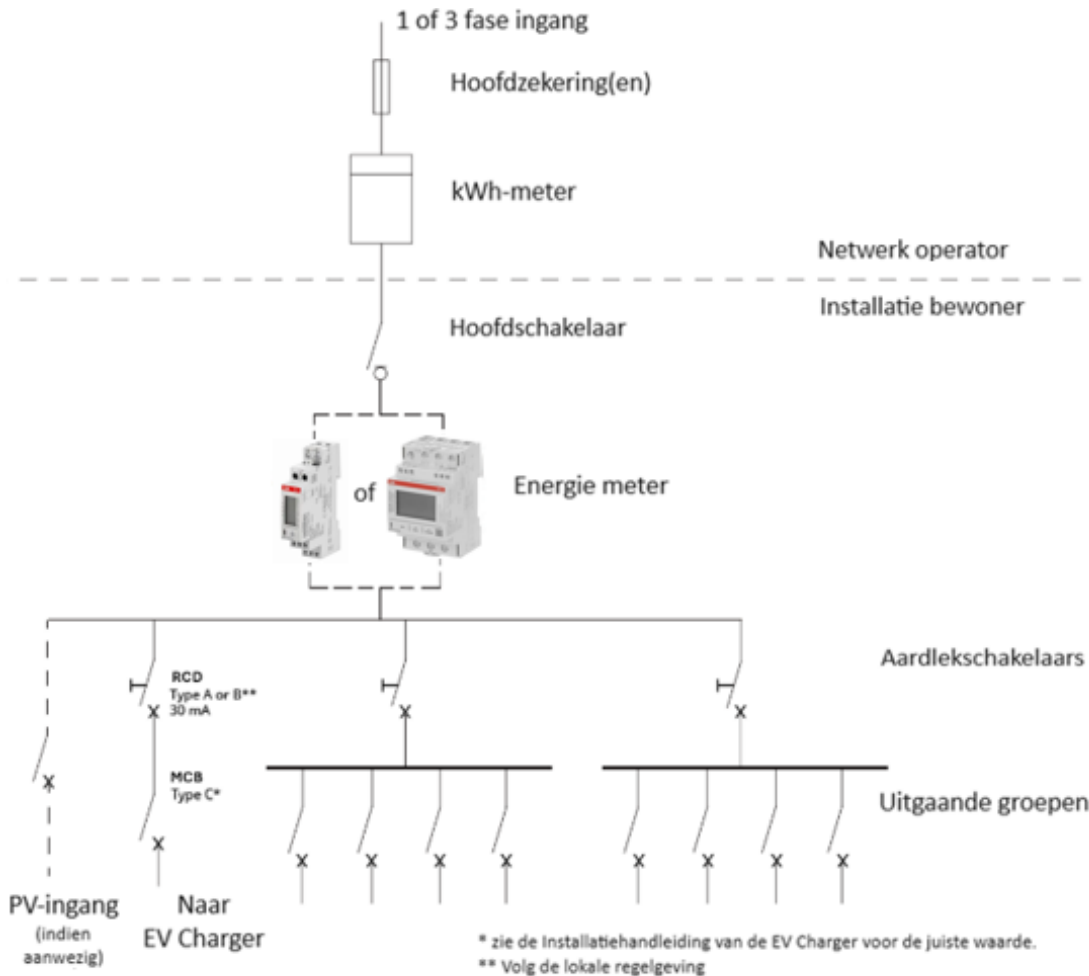
ABB Artikelnummer: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



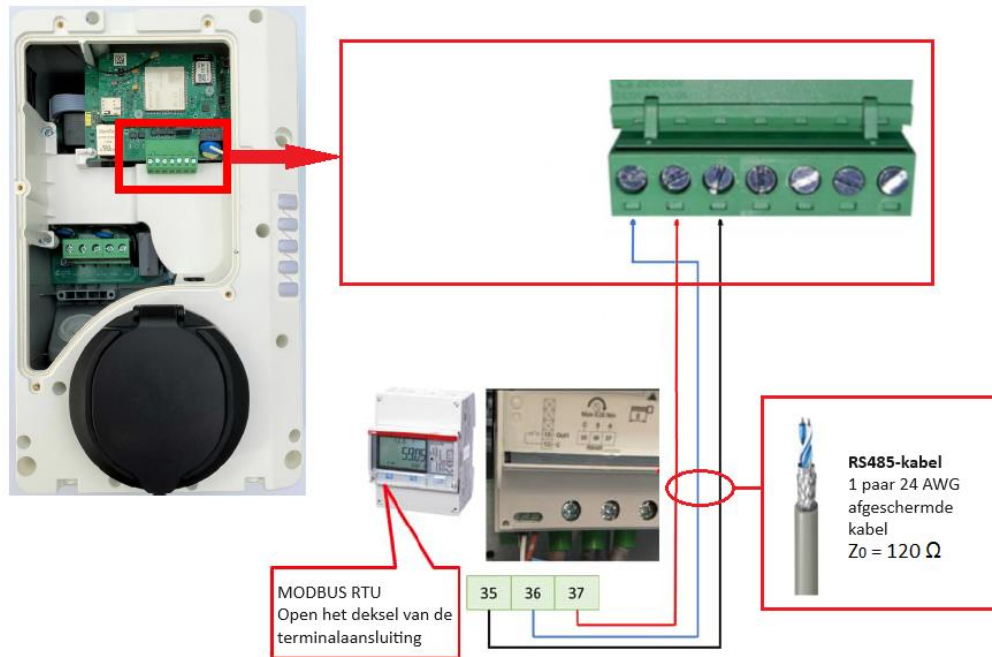
Gebruik voor de mechanische en elektrische installatie van de energiemeter de meegeleverde installatie instructies (te vinden in de verpakking van de energiemeter) of download de handleidingen van de gebruikte energiemeter via de bovenstaande link *Downloads beschikbare documenten*.



De hoofdschakelaar is alleen bedoeld voor veiligheidsuitschakeling tijdens de installatie. De energiemeter kan overal worden geplaatst waar het totale huishoudelijke verbruik wordt gemeten – als uw aardlekschakelaar de stroom kan uitschakelen, werkt die ook als een hoofdschakelaar.

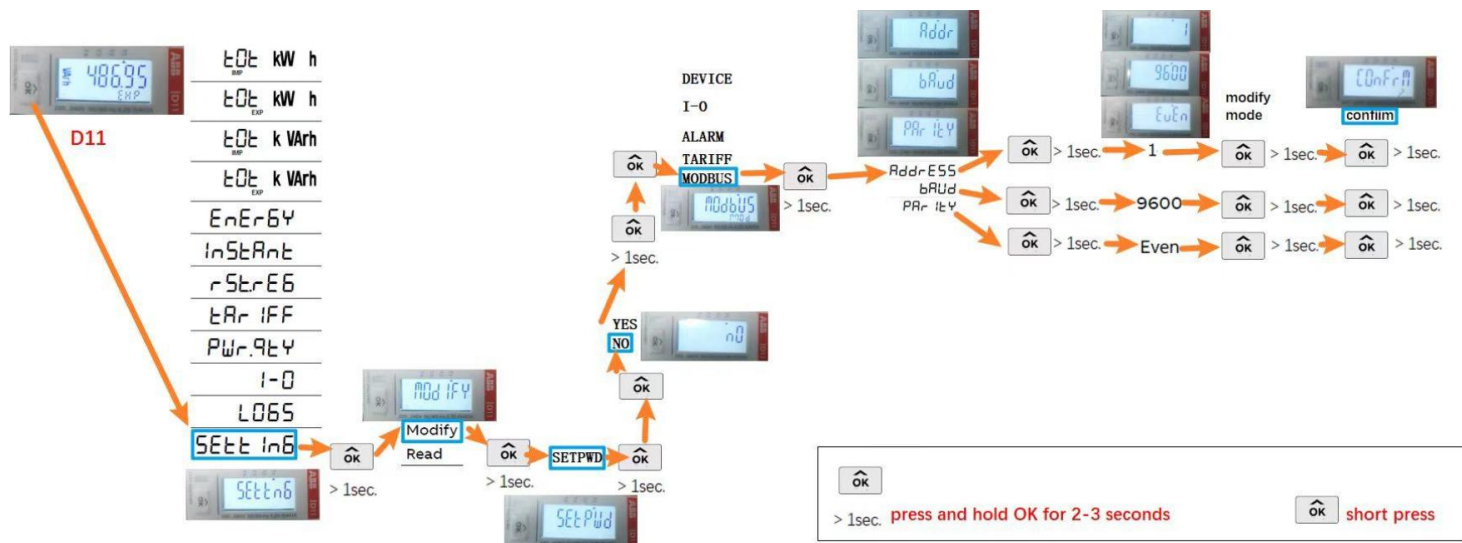
Installeer de energiemeter na de hoofdschakelaar en vóór de verdeelkast met aardlekschakelaars en installatieautomaten. De bovenstaande afbeelding is een voorbeeld van een typische residentiële verdeelkast (meterkast).

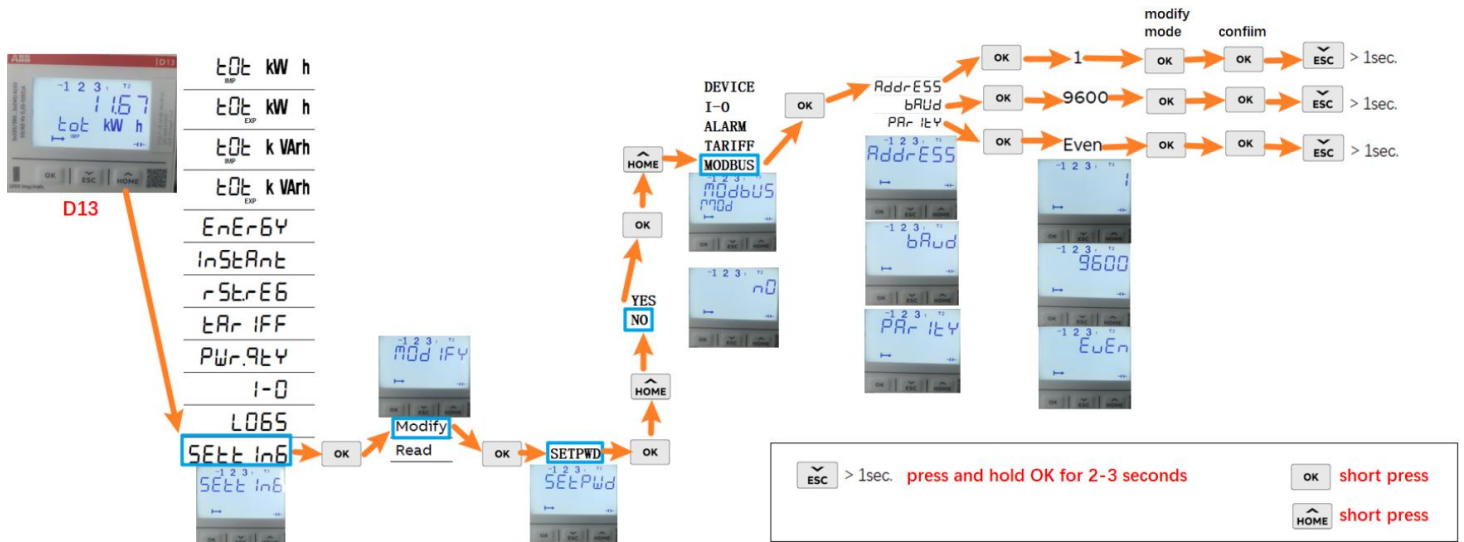
⚠ Waarschuwing - De energiemeter moet altijd worden beveiligd met zekeringen aan de inkomende zijde. Zie voor meer informatie de installatiehandleidingen van de energiemeter.



Configuratie energiemeter - geen wijziging nodig

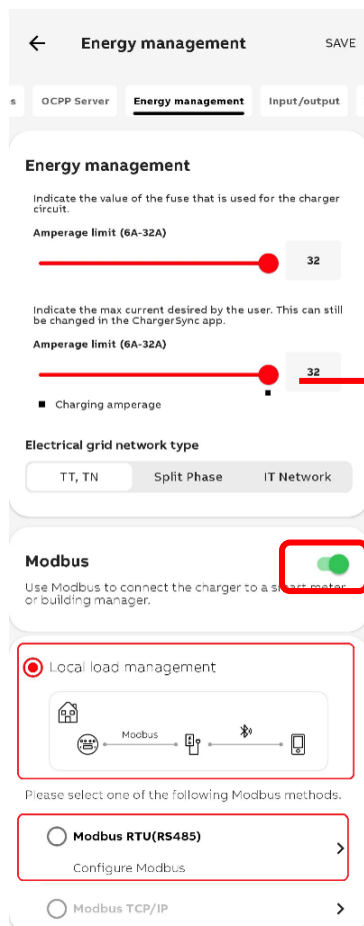
Onderstaande afbeelding toont de standaard fabrieksinstellingen van de energiemeter. Dit zijn de juiste instellingen voor load management en deze moeten niet gewijzigd worden.





TerraConfig inbedrijfstellingsapp - voor load management

Zie de online handleiding voor algemene EV laadinstellingen - link naar de website [TerraConfig App - Overzicht](https://www.chargedot.com/TerraConfig_App_-_Overzicht) ([Chargedot.com](https://www.chargedot.com))

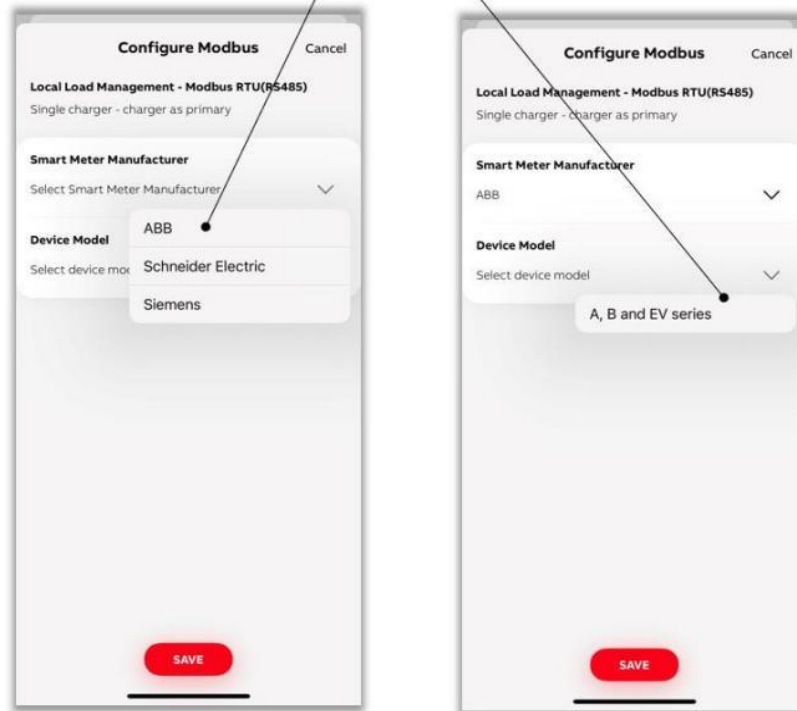


Load management:
Selecteer Lokaal load management
selecteren: RTU(RS485)

Stel de door de gebruiker instelbare maximale stroom niet in

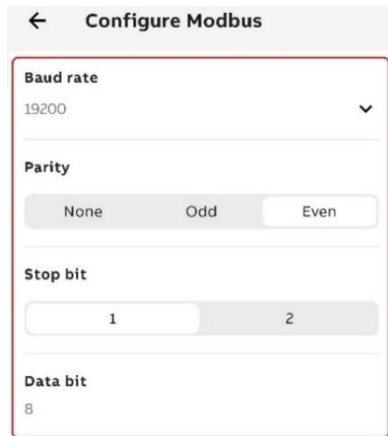
Voorbeeld van het selecteren van een ABB meter

Example of selecting ABB meter



Selecteer '**ABB**' in het vervolgkeuzemenu **SmartMeter Manufacturer**.

Selecteer juiste modellen in het vervolgkeuzemenu **Device Model**.



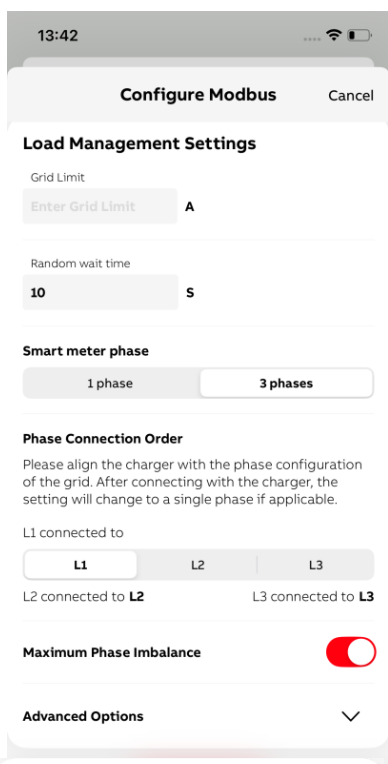
Stel de **baudrate** in op '9600'

Stel de **pariteit** in op 'Even'

Stopbit moet 1 zijn en **databit** moet 8 zijn

OPMERKING

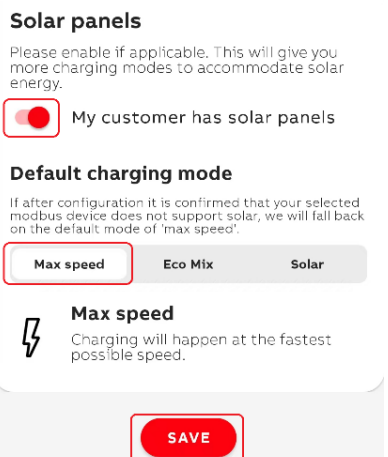
Energimeter en EV Lader moeten dezelfde waarden hebben.



Netlimiet: maximale limiet (in Ampère) van de netverbinding waarvoor load management moet worden uitgevoerd. Controleer de hoofdzekering van de residentiële installatie voordat u deze waarde instelt. Deze waarde mag niet hoger worden ingesteld dan de hoofdzekering!



De 'Smart meter phase' en 'Phase connection order' herzien om ze in overeenstemming te brengen met de installatie instellingen en de lokale regelgeving.



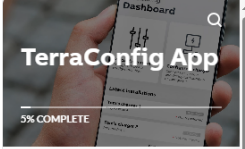
OPMERKING:

ALS er zonnepanelen aanwezig zijn, selecteer dan alleen Max. snelheid
Selecteer nooit EcoMix of Solar

Druk op de knop **SAVE** om de instellingen op te slaan.

Eindig met bevestig configuratie om de configuratie op te slaan op de EV Lader.

Volg voor geavanceerde instellingen/instructies de link [TerraConfig App - Overzicht \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-App-Overzicht) en ga naar Energiebeheer / en volg de tChargedotladen.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

eesti keel

See kiirpaigaldusjuhend kirjeldab lühidalt elektrisõidukite laadija koormuse haldamise funktsiooni kõige olulisemaid paigaldus- ja konfigureerimisetappe. See kiirpaigaldusjuhend ei asenda elektrisõidukite laadija ja energiaarvesti tootja paigaldusjuhendit, vaid täiendab neid dokumente. Täpsemat teavet leiate elektrisõidukite laadija paigaldusjuhendist ja energiaarvesti paigaldusjuhendist. See kiirpaigaldusjuhend on mõeldud kasutamiseks kvalifitseeritud elektritöötajatele (paigaldajatele), kes vastutavad elektrisõidukite laadija ja energiaarvesti paigaldusel koormuse haldamise funktsiooni eest.

Enne koormuse haldamise funktsiooni installimist lugege see kiirpaigaldusjuhend hoolikalt ja tähelepanelikult läbi. Järgige selle kiirpaigaldusjuhendi juhiseid. Chargedot ei vastuta käesolevas kiirpaigaldusjuhendis kirjeldatud juhiste eiramisest või ebaõigest täitmisest põhjustatud kahjude eest.

Üldine



- **Hoiatus** – Elektriseadmeid tohivad paigaldada, käsitseda, seadistada ja hooldada ainult kvalifitseeritud elektrikud.
- Elektripaigaldis tuleb projekteerida ja ehitada vastavalt kohalikele seadustele, ohutus- ja elektrieskirjadele.
- Enne paigaldustööde alustamist tagage, et jaotuskapi (tarbija seade) pealüliti on väljalülitatud (asendis OFF). Veenduge pinge katsetamise teel, et elektritoide on VÄLJA lülitatud.

Vastutusest loobumine

Selles dokumendis sisalduvat teavet võidakse ette teatamata muuta ja seda ei tohiks tõlgendada Chargedot vastutusena. Chargedot ei vastuta selles dokumendis esineda võivate vigade eest.

Chargedot ei vastuta mitte mingil juhul selle dokumendi kasutamisest tuleneda võivate otseste, kaudsete, eriliste, juhuslike või kaudsete kahjude eest; samuti ei vastuta Chargedot selles dokumendis kirjeldatud tarkvara või riistvara kasutamisest tulenevate juhuslike või kaudsete kahjude eest.

⚠ Hoiatus – Kõrgepingega töötamine on eluohtlik. Kõrgepinge võib põhjustada südameseiskumise, põletusvigastusi või muid raskeid kehavigastusi. Selliste vigastuste vältimiseks ühendage enne paigalduse alustamist toiteallikas alati lahti.

⚠ Hoiatus – Ohutuskaalutlustel on soovitatav paigaldada seadmestik nii, et klemmplokkide juhuslik haaramine või puudutamine oleks võimatu.

Paigaldise parima ohutu tagamiseks on soovitatav paigaldada seade ümbrisesse. Lisaks tuleks seadmetele juurdepääsu piirata luku ja kvalifitseeritud elektrikute valduses oleva võtme kasutamisega.

⚠ Hoiatus – Ärge kasutage seadmestikku väljaspool nimetatud tehnilisi andmeid.

Paigaldusnõuded – Kaitsenõuete täitmiseks peab energiaarvesti olema paigaldatud standardi IEC 60259 kohasesse vähemalt kaitseklassile IP51 vastavasse ümbrisse.

Ettevaatust – Hoolitsege, et energiaarvestisse ja elektrisõidukite laadijasse ei satuks vedelikku, sest see võib seadmestikku kahjustada.

Kui plommisildid on eemaldatud, pole garantii ja täpsus enam tagatud.

See juhend kehtib järgmiste elektrisõidukite laadija mudelite puhul ja soovitav kombineerida järgmiste energiaarvesti mudelitega.

EV-laadija			Elektromõõr		
Chargedot osa number	Mudel	Kolmefaasiline või ühefaasiline	ABB osa number	Mudel	Kolmefaasiline või ühefaasiline
6AGC082155	Terra AC W7-G5-R-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC082156	Terra AC W11-G5-R-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC082158	Terra AC W22-G5-R-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC105906	Terra AC W7-S-R-C-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC082154	Terra AC W22-S-R-C-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC082157	Terra AC W22-G5-R-C-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC081282	Terra AC W22-S-RD-MC-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118141	Terra AC W7-S-R	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118142	Terra AC-W11-S-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118143	Terra AC W22-S-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118144	Terra AC W7-G5-R	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118145	Terra AC W22-G5-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118146	Terra AC W7-S-R-C	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118147	Terra AC W22-S-R-C	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118148	Terra AC W22-S-RD-MC	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118149	Terra AC-W11-T-RD-PC	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118155	Terra AC W7-S-R	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118156	Terra AC-W11-S-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118157	Terra AC W22-S-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118158	Terra AC W7-G5-R	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118159	Terra AC W22-G5-R	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118160	Terra AC W7-S-R-C	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC118161	Terra AC W22-S-R-C	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118162	Terra AC W22-S-RD-MC	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC118163	Terra AC-W11-T-RD-PC	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128169	Terra AC W7-G5-R-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128178	Terra AC W7-G5-R-C-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128177	Terra AC W7-S-R-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128176	Terra AC W7-S-R-C-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128175	Terra AC W11-G5-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128174	Terra AC W11-S-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128173	Terra AC W22-G5-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128172	Terra AC W22-G5-R-C-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128171	Terra AC W22-S-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128170	Terra AC W22-S-R-C-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128195	Terra AC E7-S-R-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128196	Terra AC E7-S-R-C-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128197	Terra AC E7-G5-R-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128198	Terra AC E7-G5-R-C-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128199	Terra AC E11-S-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128200	Terra AC E11-G5-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128201	Terra AC E22-S-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128202	Terra AC E22-S-R-C-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128203	Terra AC E22-G5-R-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128204	Terra AC E22-G5-R-C-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Ühefaasiline	2CMA100155R1000	B21 312-100	Ühefaasiline
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Kolmefaasiline	2CMA100166R1000	B23 212-100	Kolmefaasiline

Energiaarvestite mudelid

1-faasiliste elektrisõidukite laadijate jaoks

ABB osa number: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3-faasiliste elektrisõidukite laadijate jaoks

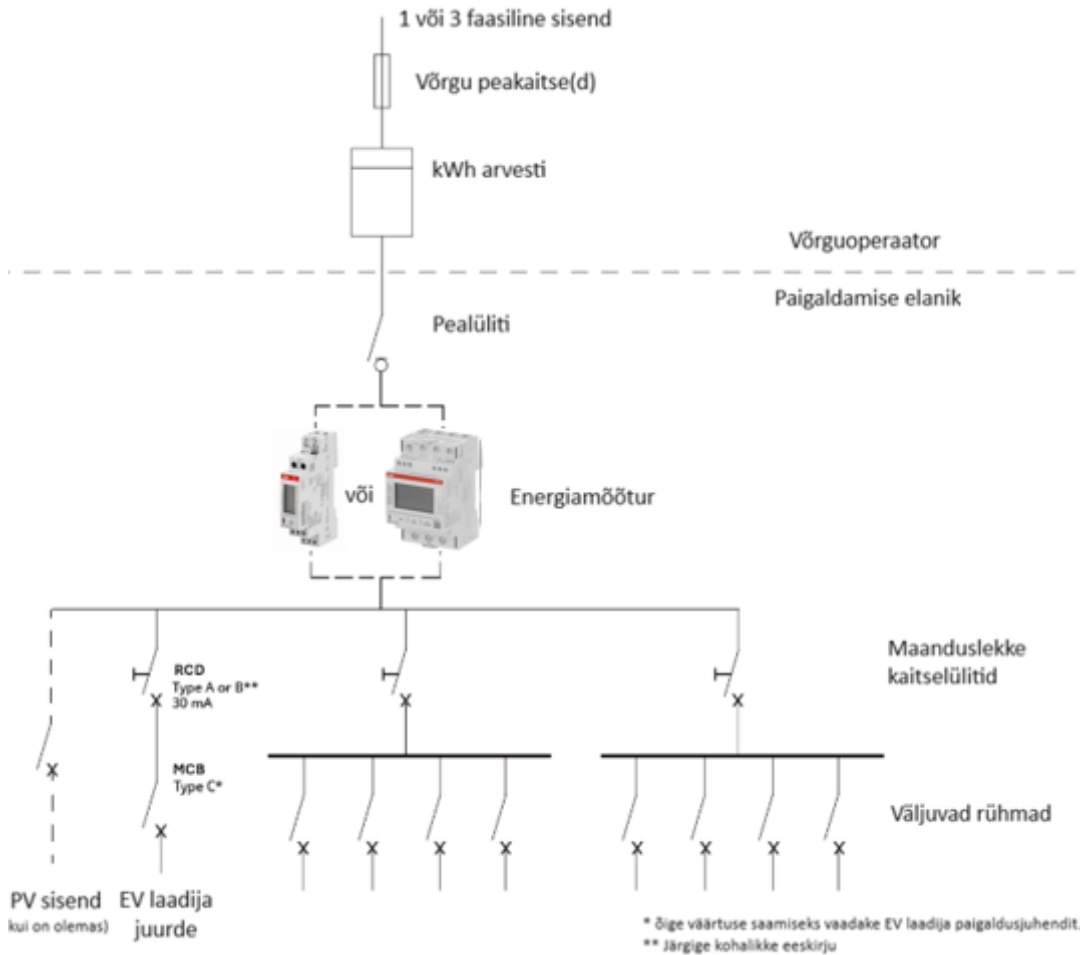
ABB osa number: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



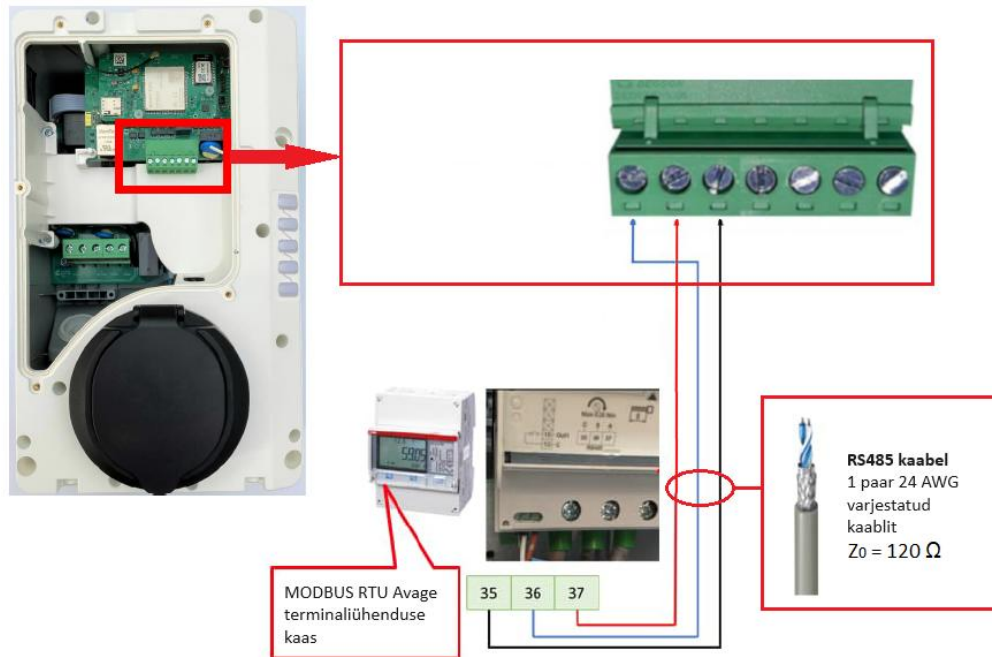
Energiaarvesti mehaaniliseks ja elektriliseks paigaldamiseks kasutage kaasasolevat paigaldusjuhendit (leiate energiaarvesti pakendilt) või laadige alla eespool toodud kasutatava energiaarvesti juhendid lingilt *Laadib alla saadaolevad dokumendid*.



Pealüliti on mõeldud ainult ohutuks väljalülitamiseks paigalduse ajal. Energiaarvesti võib paigaldada ükskõik kuhu, kus see mõõdab kogu majapidamise tarbimist – kui teie kaitselüliti suudab toite välja lülitada, töötab see ka pealülitina.

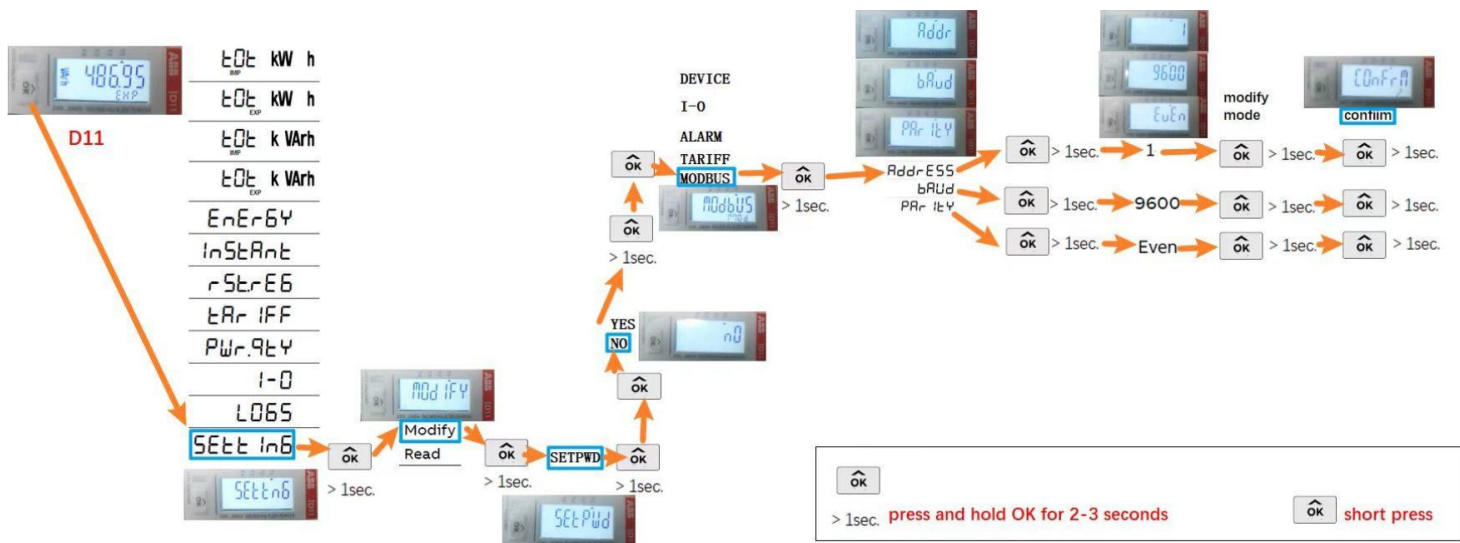
Paigaldage energiaarvesti pealüliti järele enne rikkevoolu kaitselüliti ja ülekoormuse kaitselülitiga jaotuskappi. Ülaltoodud joonisel on tüüpilise elamu jaotuskapi (tarbija seade) näide.

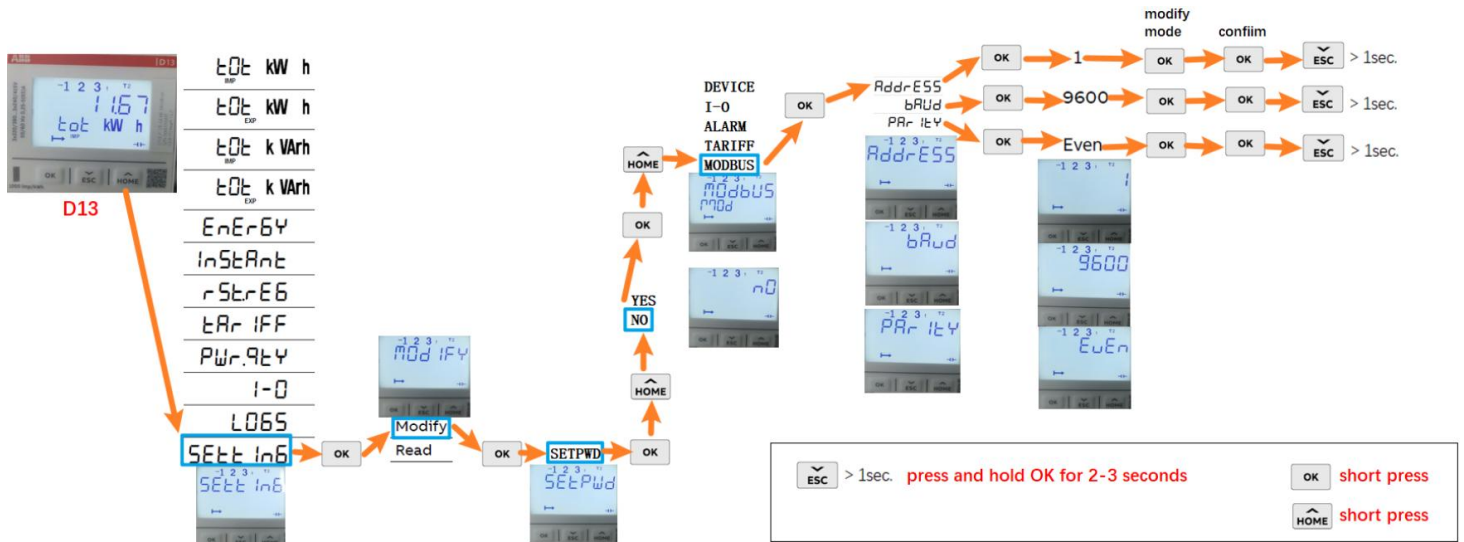
⚠ Hoiatus – Energiaarvesti peab alati olema sisendi poolt sulavkaitsmega kaitstud. Lisateavet leiate energiaarvesti paigaldusjuhendist.



Energiaarvesti konfigureerimine - mingeid muudatusi pole vaja teha

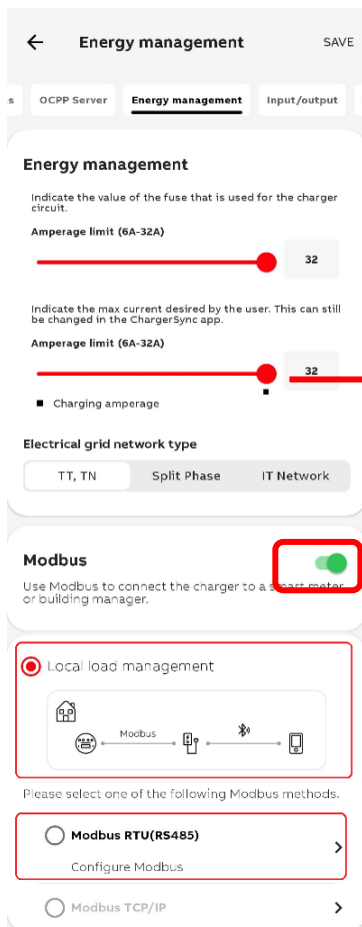
Alloleval joonisel on näidatud energiaarvesti tehasesätted. Need on koormuse haldamiseks kohased sätted ja neid ei tohiks muuta.





TerraConfigi kasutuselevõtu äpp – koormuse haldamiseks

Elektrisõidukite laadija üldiste sätete kohta vaadake veebipõhist õpetust – link veebisaidile [AppTerraConfig – ülevaade \(Chargedot.com\)](http://AppTerraConfig-ülevaade(Chargedot.com))

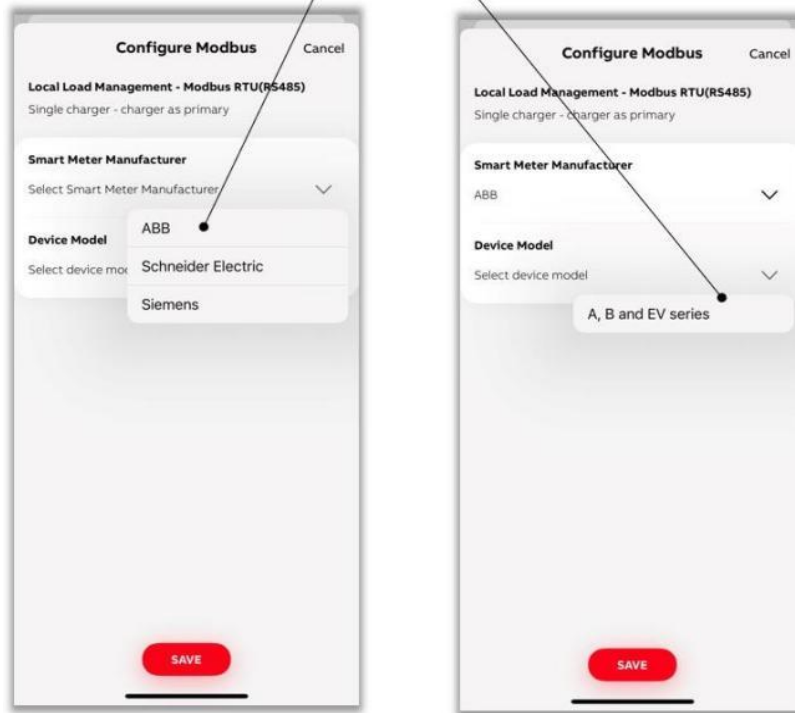


Koormuse haldamine (Load Management):
Valige kohalik koormushaldus (Local Load Management).
Valige: RTU(RS485)

Ärge määrake kasutaja poolt seadistatavat maksimaalset voolu.

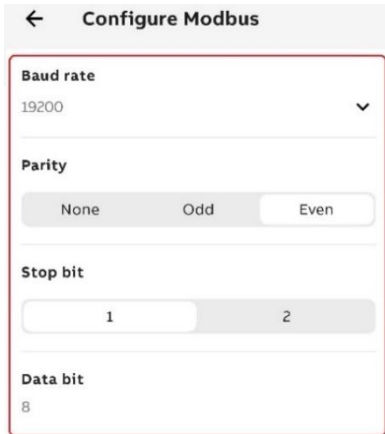
Näide ABB
arvesti valimisest

Example of
selecting ABB meter



Valige rippmenüüst **SmartMeter Manufacturer** suvand **ABB**.

Valige rippmenüüst **Device Model** suvand õiged mudelite.



Configure Modbus

Baud rate
19200 ✓

Parity
None Odd **Even**

Stop bit
1 2

Data bit
8

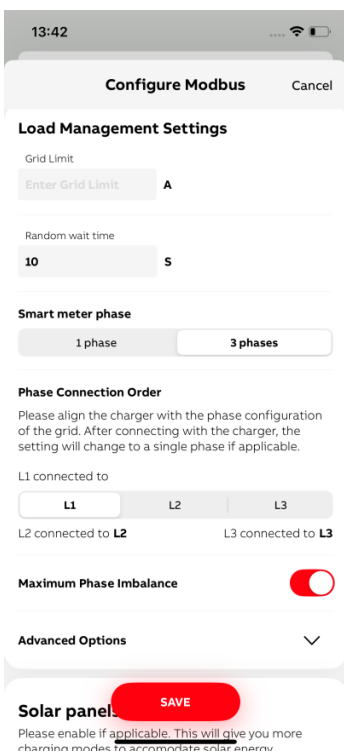
Seadke boodikiirus (**Baud Rate**) “9600”

Seadke paarsus **Parity Even**

Stop bit peab olema 1 ja **Data bit** peab olema 8

MÄRKUS:

Nutiarvestil ja elektrisõidukite laadijal peavad olema samad väärtused.



13:42

Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 **L3 connected to** L3

Maximum Phase Imbalance ☒

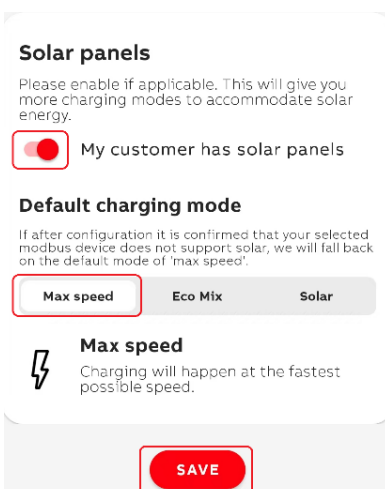
Advanced Options ✓

Solar panels **SAVE**
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

Grid limit (võrgupiirang): võrguühenduse piirmäär (amprites), kuna tuleks koormust tasakaalustada. Enne selle väärtuse seadmist vaadake elektripaigaldise peakaitse väärtust. Seda väärtust ei tohi seada peakaitse väärtusest suuremaks!



Vaadake, et nutiarvesti faaside arv (Smart meter phase) ja järjekord (Phase connection order) on kooskõlas paigaldise ja kohalike eeskirjadega.



Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

MÄRKUS:

Kui päikesepaneelid on olemas, valige ainult Max kiirus

Ärge kunagi valige EcoMix või Solar

Vajutage sätete salvestamiseks nuppu **SAVE**.

Lõpetage konfiguratsiooni kinnitamine konfiguratsiooni elektrisõidukite laadijasse salvestamisega.

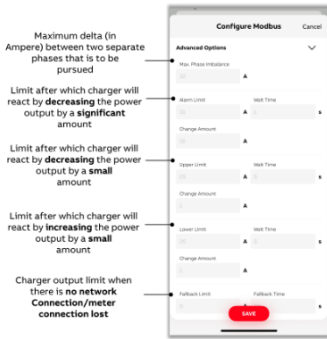
Täpsemate sätete/juhiste vaatamiseks järgige linki [Äpp TerraConfig – ülevaade \(Chargedot.com\)](https://www.chargedot.com/app-terraconfig-uelevaade), avage jaotis „Energy management“ ja järgige vahekaarte.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Suomi

Tässä pika-asennusoppaassa kuvataan sähköajoneuvojen latausaseman Load Management -toiminnon tärkeimmät asennus- ja määrittäsvaiheet lyhyesti. Tämä pika-asennusopas ei korvaa sähköajoneuvojen latausaseman ja energiamittarin valmistajan asennusoppaita, vaan se täydentää niitä. Tarkempia tietoja on sähköajoneuvojen latausaseman ja energiamittarin asennusoppaissa. Tämä pika-asennusopas on tarkoitettu pätevän sähköhenkilöstön eli niiden sähköasentajien käyttöön, jotka ovat vastuussa sähköajoneuvojen latausaseman ja energiamittarin asennuksesta Load Management -toimintoa varten.

Lue tämä pika-asennusopas huolellisesti ja tarkasti ennen Load Management -toiminnon asentamista. Noudata tämän pika-asennusoppaan ohjeita. Chargedot ei ole vastuussa vahingoista, jotka ovat aiheutuneet tässä ohjeessa kuvattujen ohjeiden noudattamatta jättämisestä tai niiden virheellisestä noudattamisesta.

Yleinen:



- **Varoitus** – Sähkölaitteita saa asentaa, käsitellä, huoltaa ja ylläpitää vain pätevä sähköhenkilöstö.
- Sähköasennus on suunniteltava ja toteutettava paikallisen lainsäädännön sekä paikallisten turvallisuus- ja sähkömääräysten mukaisesti.
- Varmista ennen asennustöiden aloittamista, että jakokaapin (kuluttajayksikkö) pääkytkin on OFF-asennossa. Tarkista jännite sen varmistamiseksi, että sähkönsyöttö on katkaistu.

Vastuuvapauslauseke

Tämän asiakirjan tietoja voidaan muuttaa ilman erillistä ilmoitusta, eikä niitä tule tulkita Chargedot:n sitoumukseksi. Chargedot ei ota vastuuta tässä asiakirjassa mahdollisesti esiintyvistä virheistä.

Chargedot ei ole missään tapauksessa vastuussa mistään suorista, epäsuorista, erityisistä, satunnaisista tai välillisistä vahingoista, jotka johtuvat tämän asiakirjan käytöstä, eikä Chargedot ole vastuussa satunnaisista tai välillisistä vahingoista, jotka johtuvat minkä tahansa tässä asiakirjassa kuvatun ohjelmiston tai laitteiston käytöstä.

 **Varoitus** – Korkeaajännitteen käsittely aiheuttaa hengenvaaran. Korkeaajännitteelle altistuneet henkilöt voivat saada sydämenpysähdyksen, palovammoja tai muita vakavia vammoja. Kytke virtalähde irti tällaisten vammojen välttämiseksi ennen asennuksen aloittamista.

 **Varoitus** – Suosittelemme asentamaan laitteen turvallisuussyistä siten, ettei riviliittimiin ole mahdollista päästä käsiksi ja ettei niitä voi koskettaa vahingossa.

Turvallisin asennustapa on yksikön asentaminen koteloon. Lisäksi laitteisiin pääsyä tulee rajoittaa käyttämällä lukkoa ja avainta, jotka ovat pätevän sähköhenkilöstön valvonnassa.

 **Varoitus** – Laitetta saa käyttää vain ilmoitettujen teknisten tietojen mukaisesti.

Asennusvaatimukset – Suojausvaatimusten täyttämiseksi energiamittari on asennettava standardin IEC 60259 mukaisesti koteloihin, joiden suojaluokka on vähintään IP 51.

Huomio – Varo, ettei mittariin ja sähköajoneuvojen latausasemaan pääse nestettä, sillä se voi vaurioittaa laitteita.

Takuu raukeaa ja tarkkuutta ei voida taata, jos suljintarrat poistetaan.

Tämä opas koskee seuraavia sähköajoneuvojen latausasemien malleja, joita suositellaan käyttämään ilmoitettujen energiamittarimallien kanssa:

EV-laturi			Energiamittari		
Chargedot osanumero	Malli	Kolmivaiheinen tai yksivaiheinen	ABB osanumero	Malli	Kolmivaiheinen tai yksivaiheinen
6AGC082155	Terra AC W7-G5-R-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC082156	Terra AC W11-G5-R-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC082158	Terra AC W22-G5-R-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC105906	Terra AC W7-S-R-C-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC082154	Terra AC W22-S-R-C-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC082157	Terra AC W22-G5-R-C-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC081282	Terra AC W22-S-RD-MC-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118141	Terra AC W7-S-R	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118142	Terra AC-W11-S-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118143	Terra AC W22-S-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118144	Terra AC W7-G5-R	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118145	Terra AC W22-G5-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118146	Terra AC W7-S-R-C	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118147	Terra AC W22-S-R-C	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118148	Terra AC W22-S-RD-MC	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118149	Terra AC-W11-T-RD-PC	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118155	Terra AC W7-S-R	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118156	Terra AC-W11-S-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118157	Terra AC W22-S-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118158	Terra AC W7-G5-R	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118159	Terra AC W22-G5-R	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118160	Terra AC W7-S-R-C	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC118161	Terra AC W22-S-R-C	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118162	Terra AC W22-S-RD-MC	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC118163	Terra AC-W11-T-RD-PC	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128169	Terra AC W7-G5-R-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128178	Terra AC W7-G5-R-C-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128177	Terra AC W7-S-R-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128176	Terra AC W7-S-R-C-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128175	Terra AC W11-G5-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128174	Terra AC W11-S-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128173	Terra AC W22-G5-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128172	Terra AC W22-G5-R-C-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128171	Terra AC W22-S-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128170	Terra AC W22-S-R-C-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen

6AGC128859	Terra AC W22-S-RD-MC-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128195	Terra AC E7-S-R-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128196	Terra AC E7-S-R-C-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128197	Terra AC E7-G5-R-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128198	Terra AC E7-G5-R-C-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128199	Terra AC E11-S-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128200	Terra AC E11-G5-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128201	Terra AC E22-S-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128202	Terra AC E22-S-R-C-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128203	Terra AC E22-G5-R-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128204	Terra AC E22-G5-R-C-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Yksivaiheinen	2CMA100155R1000	B21 312-100	Yksivaiheinen
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Kolmivaiheinen	2CMA100166R1000	B23 212-100	Kolmivaiheinen

Energiamittarimallit

Yksivaiheisille sähköajoneuvojen latausasem

ABB:n osanumero: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Kolmivaiheisille sähköajoneuvojen latausasemille

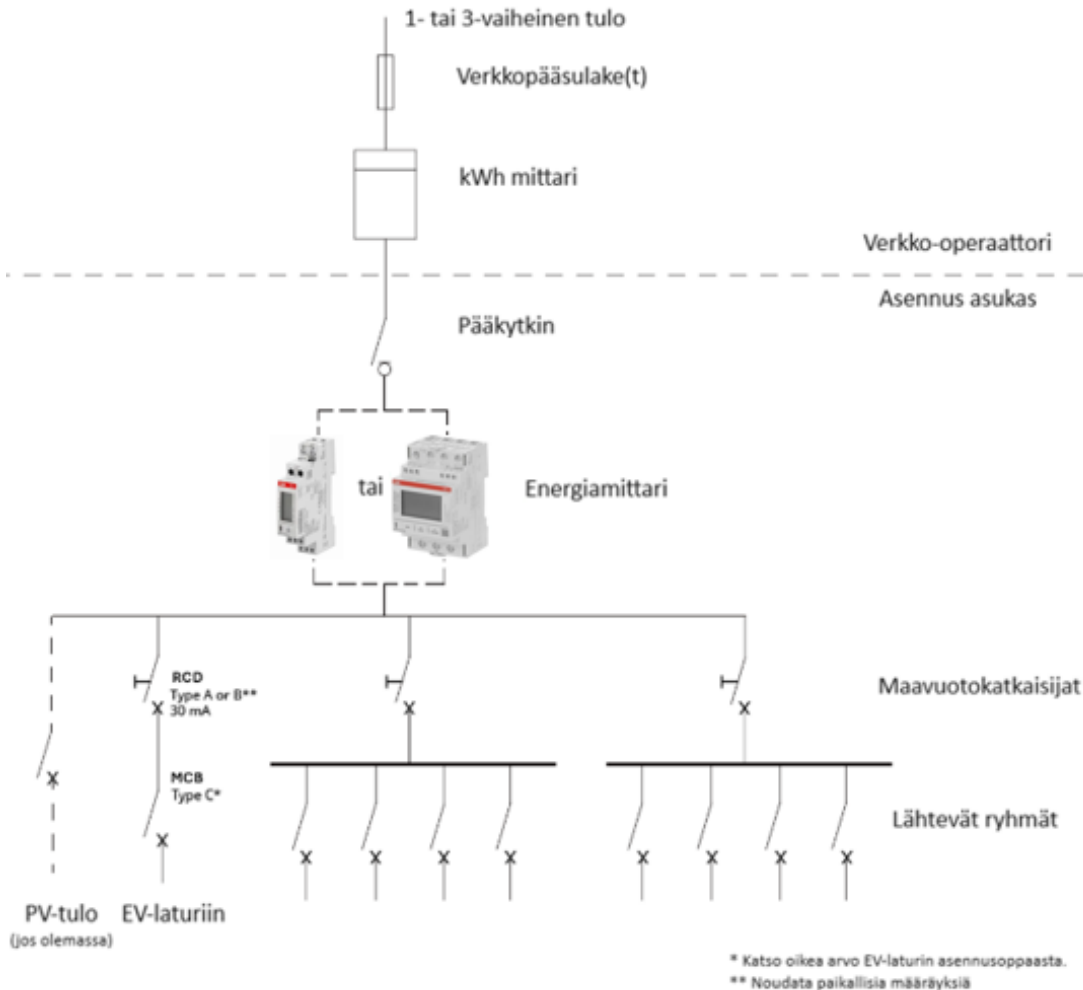
ABB:n osanumero: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



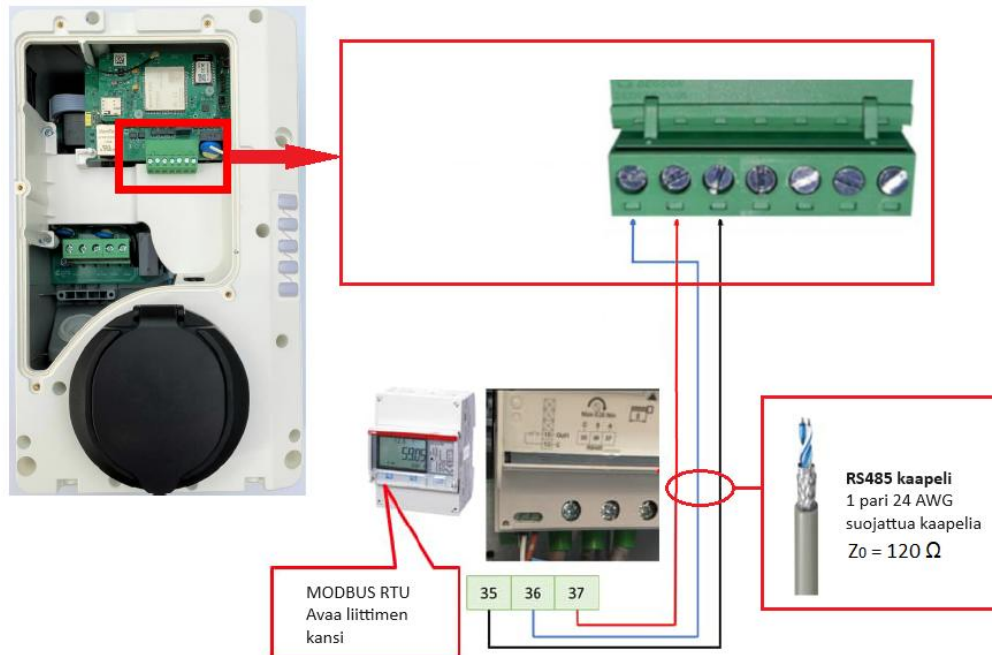
Noudata energiamittarin mekaanisessa ja sähköisessä asennuksessa asennusohjeita, jotka on toimitettu energiamittarin pakkauksessa, tai lataa käytössä olevan energiamittarin käyttöohjeet yllä olevan *Lataa saatavilla olevat asiakirjat* -linkin kautta.



Pääkytkin on vain turvakatkaisua varten asennuksen aikana. Energiamittari voidaan sijoittaa mihin tahansa, missä se mittaa koko kotitalouden kulutusta – jos vikavirtasuojakytkin pystyy katkaisemaan virran, se toimii myös pääkytkimenä.

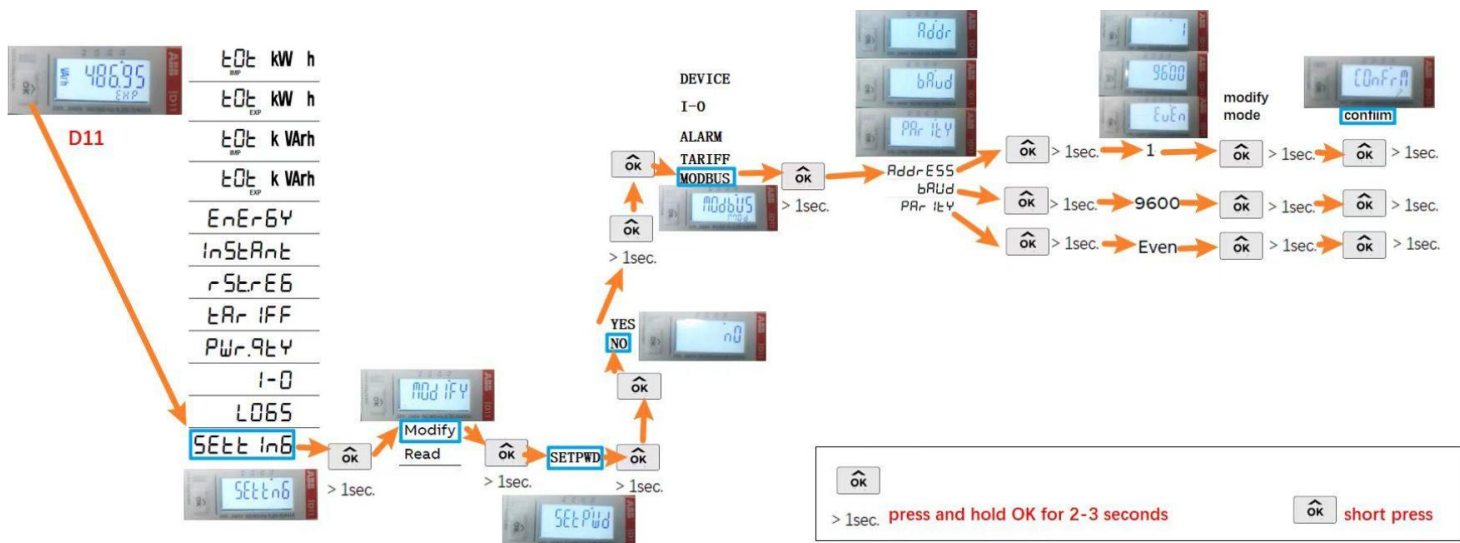
Asenna energiamittari pääkytkimen jälkeen ja ennen jakokaappia, jossa on vikavirtasuojakytkimiä ja katkaisijoita. Yllä oleva kuva on esimerkki tyypillisestä asuinrakennuksen jakokaapista (kuluttajayksikkö).

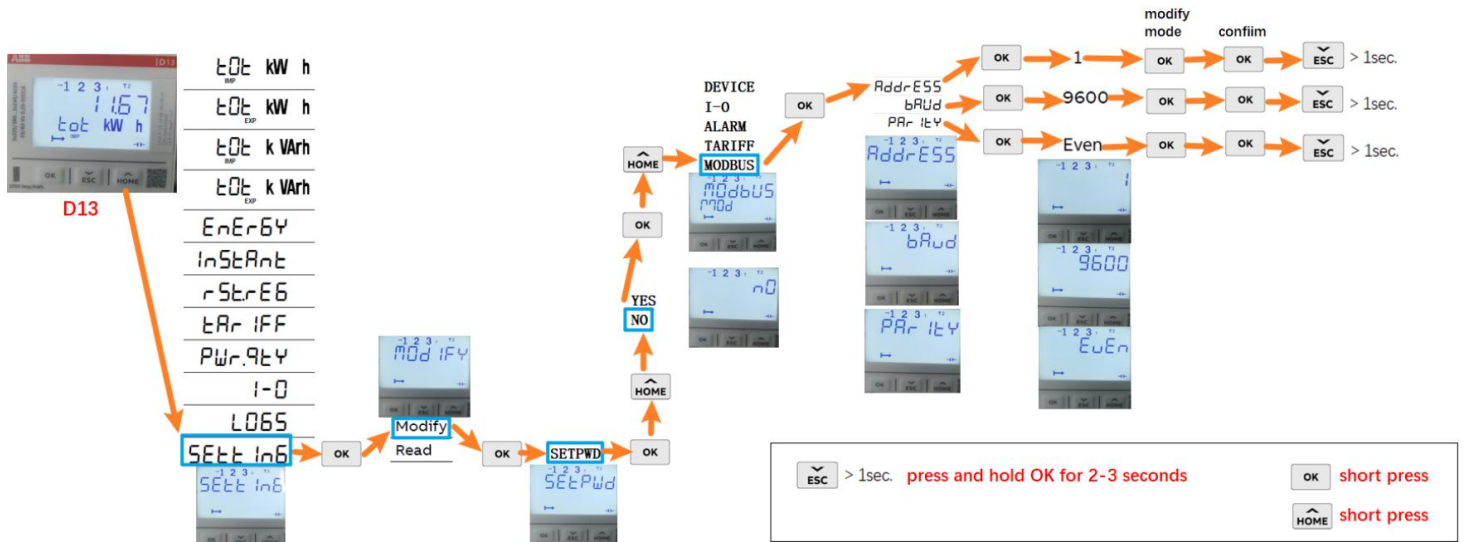
Varoitus –Energiamittari on suojattava aina tulopuolella olevilla sulakkeilla. Katso lisätietoja energiamittarin asennusohjeista.



Energiamittarin määrittäminen – muutoksia ei tarvita

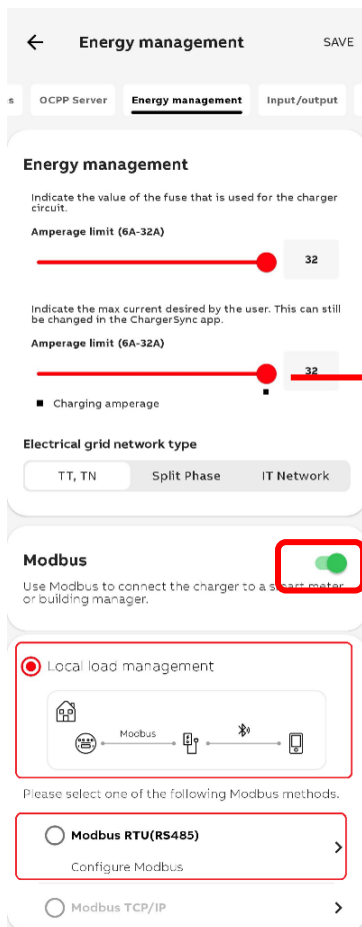
Näet alla olevasta kuvasta energiamittarin oletusarvoiset tehdasasetukset. Nämä ovat oikeat Load Management -asetukset, eikä niitä pidä muuttaa.





TerraConfig-käyttöönottosovellus – Load Management -toiminnolle

Katso yleiset sähköajoneuvojen latausasetukset verkkotutoriaalista – linkki sivustolle [TerraConfig-sovellus – yleiskatsaus \(Chargedot.com\)](https://www.chargedot.com)

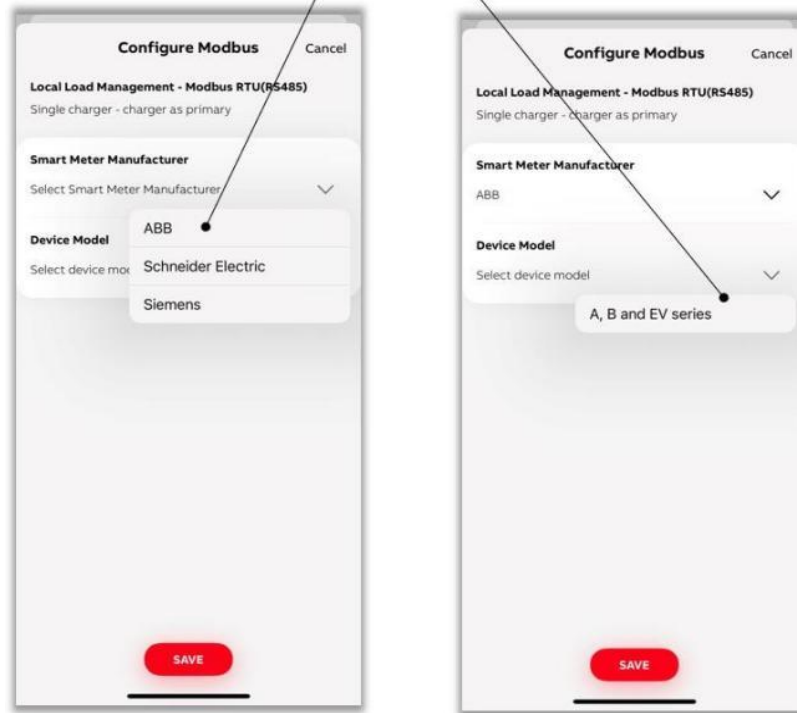


Load Management:
Valitse paikallinen Load Management.
Valitse: RTU(RS485).

ÄLÄ aseta käyttäjän asetettavissa olevaa enimmäisvirtaa.

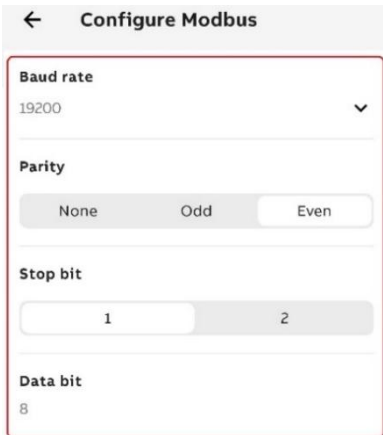
Esimerkki ABB-mittarin valinnasta

Example of
selecting ABB meter



Valitse **SmartMeter Manufacturer** (Älymittarin valmistaja) -pudotusvalikosta **ABB**.

Valitse oikeat malleja -kohta **Device Model** (Laitemalli) -pudotusvalikosta.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

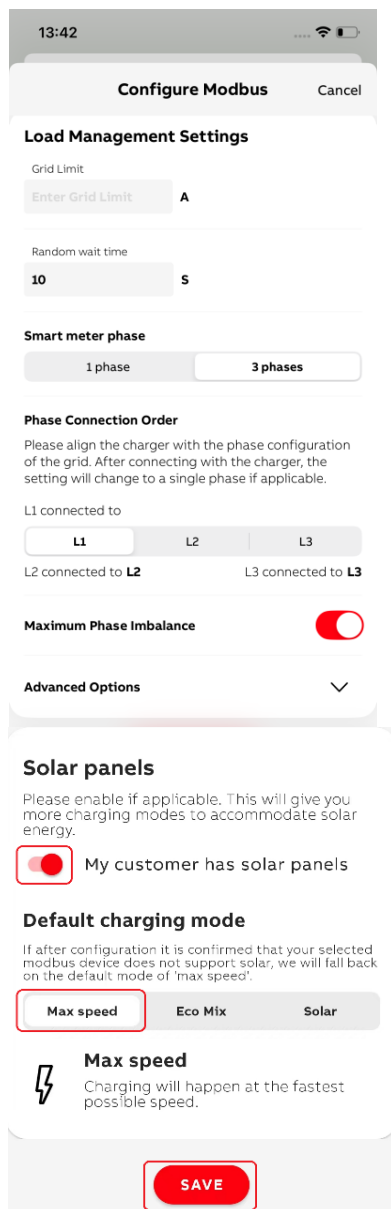
Aseta **Baud Rate** -siirtonopeudeksi **"9600"**.

Aseta **pariteetiksi Even**.

Stop bit -loppubitin tulee olla 1, ja **Data bit** -databitin tulee olla 8.

HUOMAUTUS

Älymittarilla ja sähköajoneuvojen latausasemalla tulisi olla samat arvot.



13:42

Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

Maximum Phase Imbalance ☒

Advanced Options ☒

Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

Pääsulakekoko: sähköverkkoyhteyden enimmäisraja (ampeereina), jonka mukaan kuormitus tulee tasapainottaa. Tarkista asuinrakennuksen järjestelmän pääsulake ennen arvon asettamista. Arvoa ei saa asettaa pääsulakkeen arvoa korkeammaksi!



Tarkista, että Smart meter phase (Älymittarin vaihe) ja Phase connection order (Vaihekytkentäjärjestys) ovat asennusmäärityksen ja paikallisten määräysten mukaiset.

HUOMAUTUS:

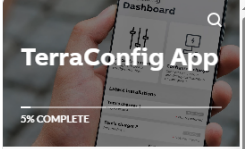
JOS aurinkopaneeleja on, valitse vain Max-nopeus

Älä koskaan valitse EcoMix tai Solar

Tallenna asetukset painamalla **TALLENNNA**-painiketta.

Lopeta vahvistamalla määritys, niin määritykset tallennetaan sähköajoneuvojen latausasemaan.

Katso lisäasetukset/ohjeet linkin [TerraConfig-sovellus – yleiskatsaus \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-sovellus-yleiskatsaus) kautta, siirry kohtaan Energianhallinta ja seuraa välilehtiä.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

Français

Ce Guide d'installation rapide décrit brièvement les principales étapes d'installation et de configuration pour la fonctionnalité de gestion de charge du chargeur pour véhicules électriques. Ce Guide d'installation rapide ne remplace pas le manuel d'installation du fabricant du chargeur VE et du compteur d'énergie, il est complémentaire à ces documents. Des informations plus détaillées sont disponibles dans le manuel d'installation du chargeur VE et dans le manuel d'installation du compteur d'énergie. Ce Guide d'installation rapide est destiné à être utilisé par du personnel électrique qualifié (installateur) qui est responsable de l'installation du chargeur VE et du compteur d'énergie afin de mettre en place la fonctionnalité de gestion de charge.

Avant d'installer la fonctionnalité de gestion de charge, lisez ce Guide d'installation rapide très attentivement. Suivez les instructions de ce Guide d'installation rapide. Chargedot n'est pas responsable de tout dommage causé par le non-respect ou l'exécution incorrecte des instructions décrites dans ce Guide d'installation rapide.

Généralités :



- **Avertissement** – L'installation, l'accès, la maintenance et l'entretien de l'équipement électrique sont exclusivement réservés au personnel électricien qualifié.
- L'installation électrique doit être conçue et construite conformément aux lois locales, aux réglementations en matière de sécurité et d'électricité.
- Assurez-vous que l'interrupteur principal de l'armoire de distribution (Tableau de distribution) est réglé sur la position OFF, avant de commencer les travaux d'installation. Effectuez une vérification de la tension pour vous assurer que l'alimentation électrique est coupée.

Dégagement de responsabilité

Les informations figurant dans ce document peuvent être modifiées sans notification préalable et ne constituent pas un engagement de la part d'Chargedot. Chargedot ne peut pas être considérée comme responsable des éventuelles erreurs contenues dans ce document.

En aucun cas Chargedot ne peut être rendu responsable pour tous dommages directs ou indirects, accessoires ou consécutifs de quelque nature à la suite de l'utilisation de ce document. Chargedot ne peut pas être tenu responsable des dommages directs ou indirects découlant de l'utilisation des logiciels ou matériels contenus dans ce document.

⚠ Avertissement – Les travaux sous haute tension sont potentiellement mortels. Les personnes soumises à une haute tension peuvent subir un arrêt cardiaque, des blessures par brûlure ou d'autres blessures graves. Pour éviter de telles blessures, assurez-vous de débrancher l'alimentation électrique avant de commencer l'installation.

⚠ Avertissement – Pour des raisons de sécurité, il est recommandé d'installer l'équipement de manière à ce qu'il soit impossible d'atteindre ou de toucher les borniers par accident.

Pour garantir une installation sûre, il est indispensable d'installer l'unité dans une enveloppe. De plus, l'accès à l'équipement doit être limité par l'utilisation d'un cadenas et d'une clé, contrôlés par un personnel électrique qualifié.

⚠ Avertissement – N'utilisez pas l'équipement en dehors des caractéristiques techniques spécifiées.

Exigences d'installation – Pour répondre aux exigences de protection, le compteur d'énergie doit être monté dans des enveloppes de classe de protection IP 51, ou mieux, selon la norme CEI 60259.

Prudence – Faites attention à ce qu'aucun liquide ne pénètre dans le compteur et le chargeur VE car cela pourrait endommager l'équipement.

La garantie et l'exactitude sont annulées si les étiquettes de fermeture sont retirées.

Ce manuel s'applique aux modèles de chargeurs VE suivants et il est recommandé de le combiner avec les modèles de compteurs d'énergie indiqués :

Chargeur pour VE			Compteur d'énergie		
Numéro de pièce Chargedot	Modèle	Triphasé ou monophasé	Numéro de pièce ABB	Modèle	Triphasé ou monophasé
6AGC082155	Terra AC W7-G5-R-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC082156	Terra AC W11-G5-R-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC082158	Terra AC W22-G5-R-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC105906	Terra AC W7-S-R-C-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC082154	Terra AC W22-S-R-C-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC082157	Terra AC W22-G5-R-C-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC081282	Terra AC W22-S-RD-MC-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118141	Terra AC W7-S-R	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118142	Terra AC-W11-S-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118143	Terra AC W22-S-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118144	Terra AC W7-G5-R	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118145	Terra AC W22-G5-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118146	Terra AC W7-S-R-C	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118147	Terra AC W22-S-R-C	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118148	Terra AC W22-S-RD-MC	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118149	Terra AC-W11-T-RD-PC	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118155	Terra AC W7-S-R	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118156	Terra AC-W11-S-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118157	Terra AC W22-S-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118158	Terra AC W7-G5-R	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118159	Terra AC W22-G5-R	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118160	Terra AC W7-S-R-C	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC118161	Terra AC W22-S-R-C	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118162	Terra AC W22-S-RD-MC	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC118163	Terra AC-W11-T-RD-PC	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128169	Terra AC W7-G5-R-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128178	Terra AC W7-G5-R-C-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128177	Terra AC W7-S-R-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128176	Terra AC W7-S-R-C-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128175	Terra AC W11-G5-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128174	Terra AC W11-S-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128173	Terra AC W22-G5-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128172	Terra AC W22-G5-R-C-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128171	Terra AC W22-S-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128170	Terra AC W22-S-R-C-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé

6AGC128861	Terra AC W7-S-RD-MC-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128195	Terra AC E7-S-R-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128196	Terra AC E7-S-R-C-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128197	Terra AC E7-G5-R-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128198	Terra AC E7-G5-R-C-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128199	Terra AC E11-S-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128200	Terra AC E11-G5-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128201	Terra AC E22-S-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128202	Terra AC E22-S-R-C-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128203	Terra AC E22-G5-R-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128204	Terra AC E22-G5-R-C-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Monophasé	2CMA100155R1000	B21 312-100	Monophasé
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Triphasé	2CMA100166R1000	B23 212-100	Triphasé

Modèles de compteurs d'énergie

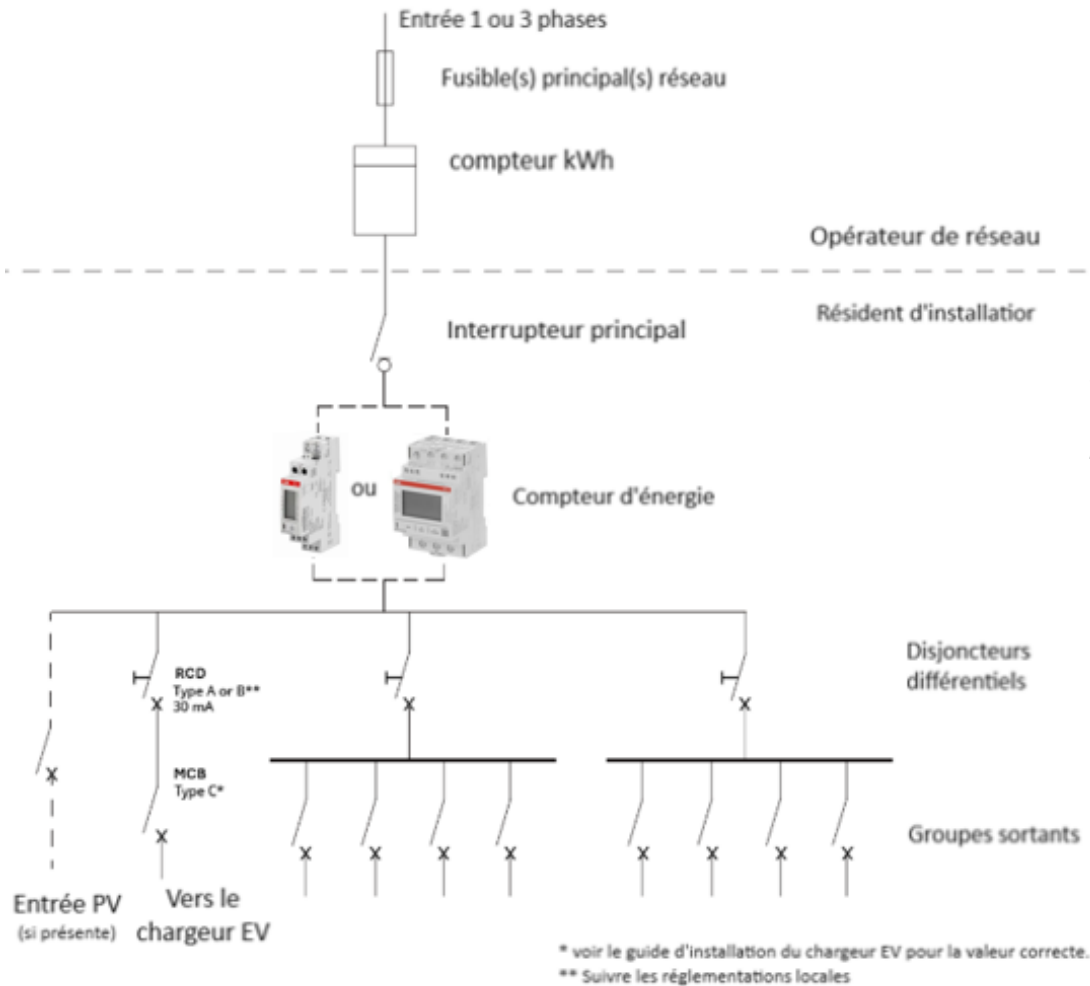
Pour les chargeurs VE monophasés
Référence ABB : 2CMA241665R1000
Model: D11 15-M 40 Modbus
[D11 15-M 40 Modbus | ABB](#)



Pour les chargeurs VE triphasés
Référence ABB : 2CMA241765R1000
Model: D13 15-M 65 Modbus
[D13 15-M 65 Modbus | ABB](#)



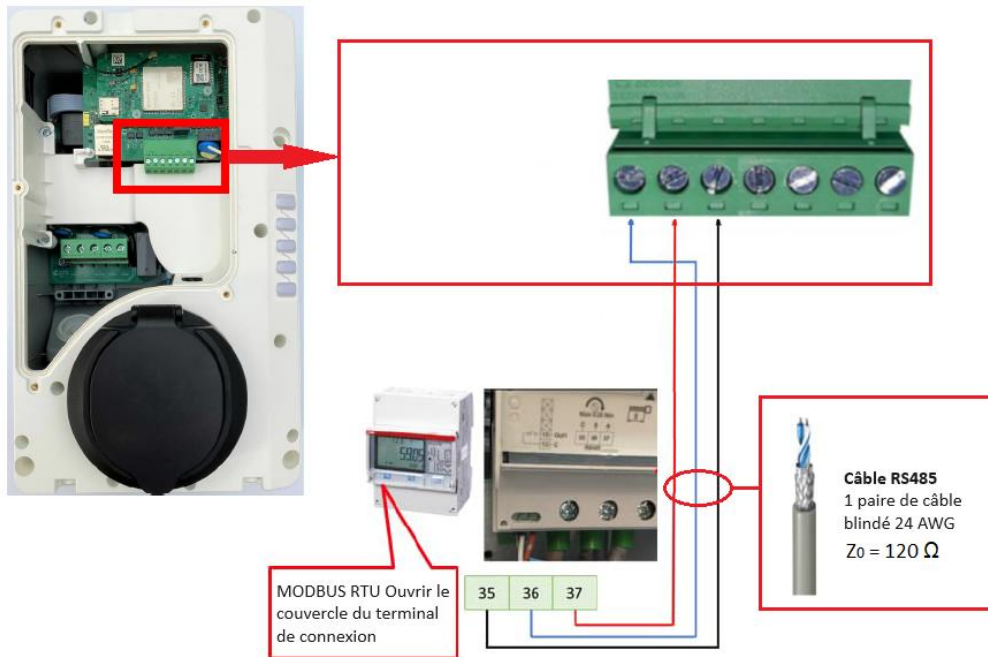
Pour l'installation mécanique et électrique du compteur d'énergie, reportez-vous aux instructions d'installation incluses (qui se trouvent dans l'emballage du compteur d'énergie) ou téléchargez les manuels du compteur d'énergie utilisé dans le lien *Téléchargements documents disponibles* ci-dessus.



L'interrupteur principal sert uniquement à la coupure de sécurité pendant l'installation. Le compteur d'énergie peut être placé n'importe où pour mesurer la consommation totale du ménage – si votre disjoncteur différentiel peut couper l'alimentation, il joue aussi le rôle d'interrupteur principal.

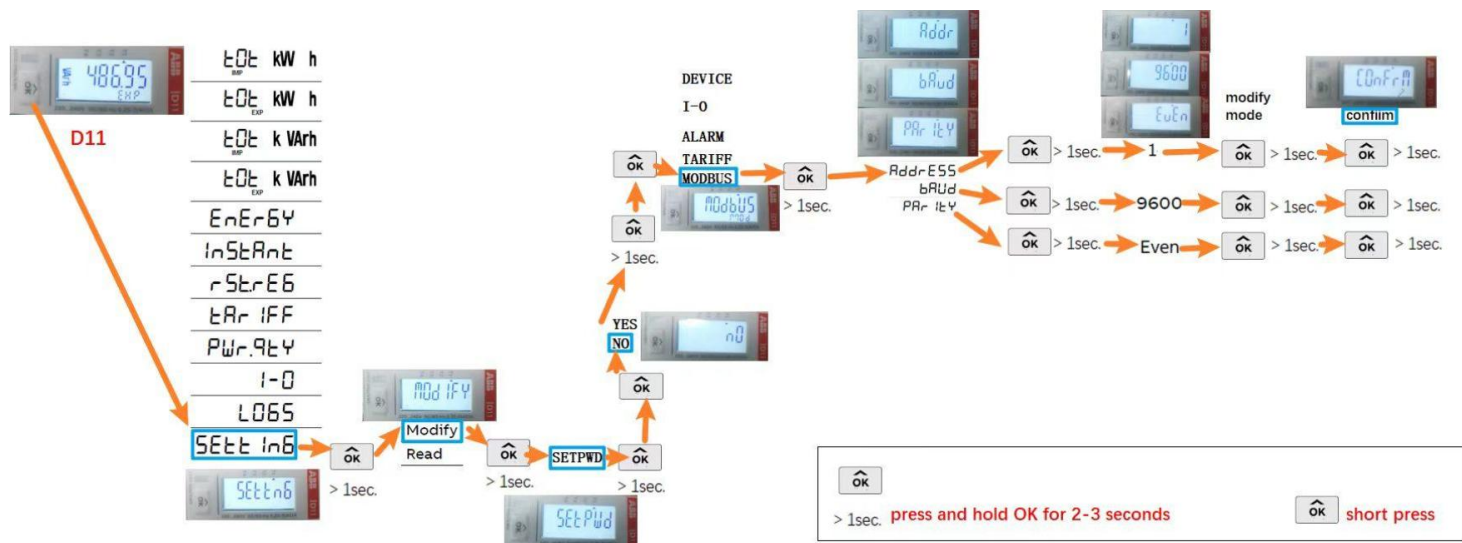
Installez le compteur d'énergie en aval de l'interrupteur principal et en amont de l'armoire de distribution avec des disjoncteurs différentiels et disjoncteurs. La figure ci-dessus est un exemple d'armoire de distribution typique des installations résidentielles (Tableau de distribution).

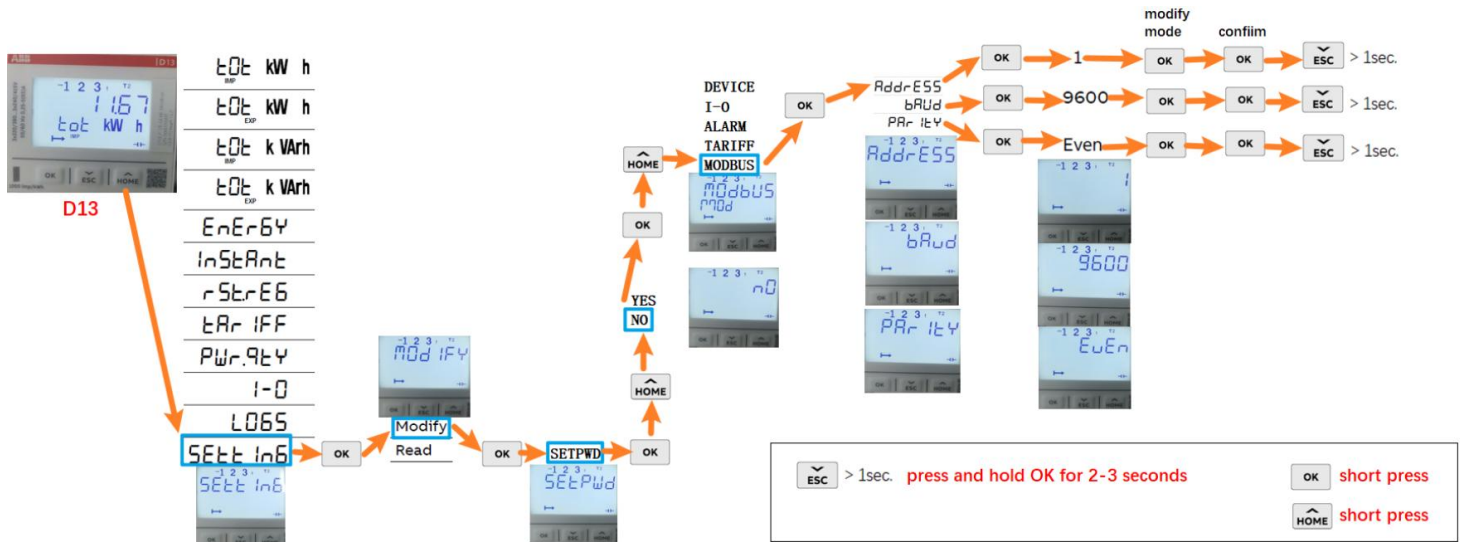
⚠ Avertissement – Le compteur d'énergie doit toujours être protégé par les fusibles côté entrée. Pour plus d'informations, consultez les manuels d'installation du compteur d'énergie.



Configuration du compteur d'énergie - aucune modification nécessaire

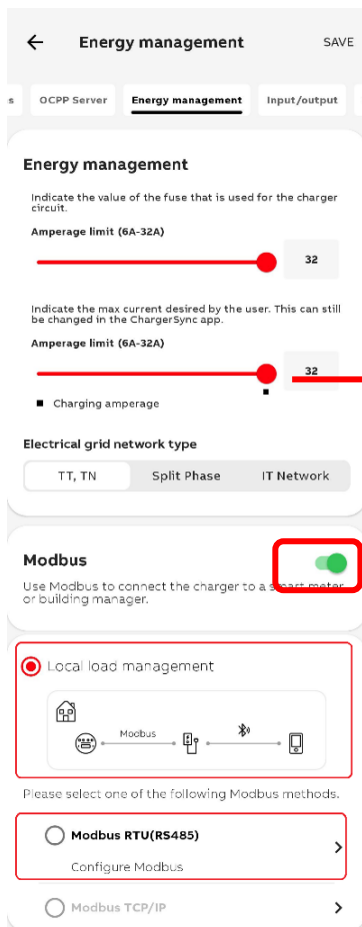
La figure ci-dessous montre les paramètres d'usine par défaut du compteur d'énergie. Il s'agit des paramètres corrects pour la Load management et ne doivent pas être modifiés.





Application de mise en service TerraConfig – pour la Load management

Pour les paramètres généraux de recharge des véhicules électriques, veuillez consulter le didacticiel en ligne – lien vers le site Web [Application TerraConfig - Présentation \(Chargedot.com\)](http://Application TerraConfig - Présentation (Chargedot.com))

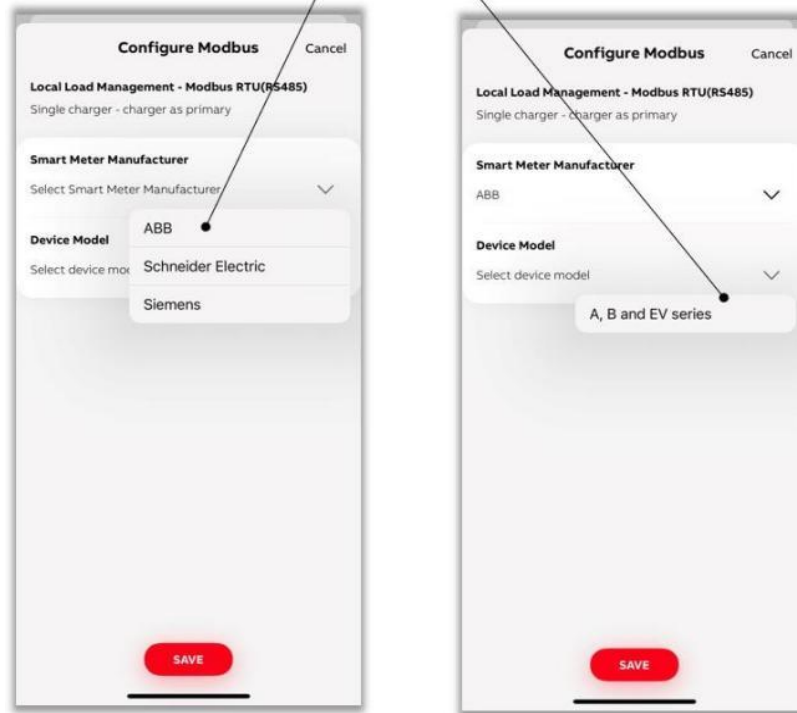


Load management :
Sélectionnez Gestion de charge locale
Sélectionnez: RTU (RS485)

Ne pas régler le courant maximal réglable par l'utilisateur

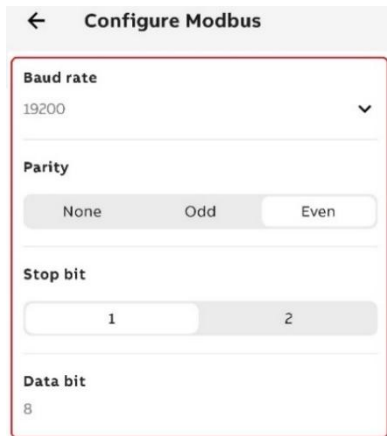
Exemple de sélection du compteur ABB

Example of selecting ABB meter



Sélectionnez '**ABB**' dans le menu déroulant **Fabricant Compteur Intelligent**.

Sélectionnez corrects modèles dans le menu déroulant **Modèle d'appareil**.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

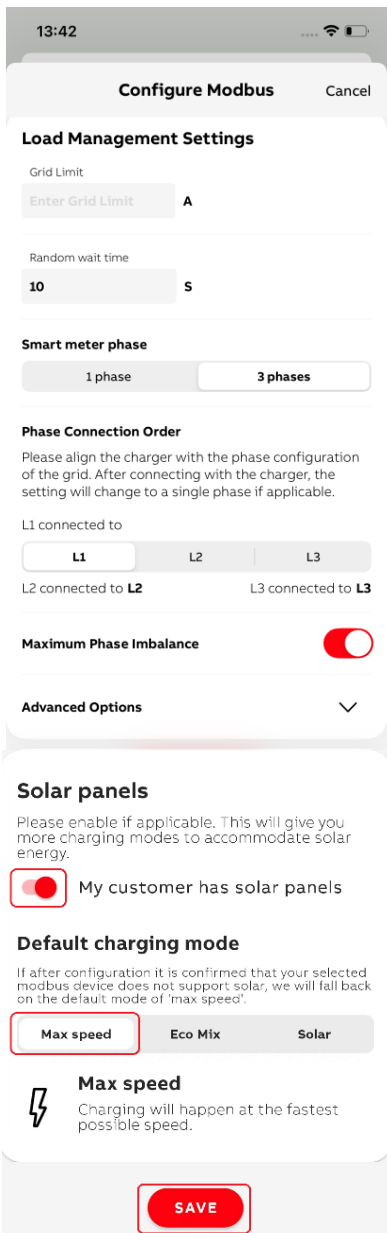
Réglez le **Débit en bauds** sur '9600'

Réglez la **Parité** sur 'Paire'

Le **Bit d'arrêt** doit être 1 et le **Bit de données** doit être 8

REMARQUE

Le compteur intelligent et le chargeur VE doivent avoir les mêmes valeurs.



Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to L1 L2 L3
L2 connected to L2 L3 connected to L3

Maximum Phase Imbalance ☒

Advanced Options

Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.
☒ My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

Limite du réseau : limite maximale (en Ampères) du raccordement au réseau pour laquelle l'équilibrage de charge doit être effectué. Avant de régler cette valeur, vérifiez le fusible principal de l'installation résidentielle. Cette valeur ne doit pas être supérieure à celle du fusible principal !



Examinez la « phase du compteur intelligent » et « l'ordre de connexion de phase » afin d'être conforme à la configuration de l'installation et à la réglementation locale.

REMARQUE :

Si des panneaux solaires sont présents, ne sélectionner que la vitesse maximale
Ne jamais sélectionner EcoMix ou Solar

Appuyez sur le bouton **ENREGISTRER** pour mémoriser les paramètres.

Veuillez terminer par Confirmer la configuration pour mémoriser la configuration dans le chargeur VE.

Pour connaître les paramètres/instructions avancés, veuillez suivre le lien [Application TerraConfig - Présentation \(Chargedot.com\)](https://Chargedot.com/Application TerraConfig - Présentation) puis accédez à la Gestion de l'énergie / et suivez les onglets.



- Onboarding to TerraConfig ☐
- Commissioning a charger ☐
- Select & connect a charger ☐
- Configure settings ☐
- Firmware update ☐
- Network connection ☐
- OCCP server - External backoffice ☐
- Energy management ☒**
- Input/Output ☐
- Charging RFID cards ☐

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network connection/meter connection lost**



Load management

Deutsch

Diese Installations-Kurzanleitung (QIG) beschreibt kurz die wichtigsten Installations- und Konfigurationsschritte für die Load management Funktionalität des EV-Ladegeräts. Diese QIG ist kein Ersatz für die Installationsanleitung des Herstellers des EV-Ladegeräts und des Energiezählers, sondern ergänzt diese Dokumente. Ausführlichere Informationen finden Sie im Installationshandbuch für das EV-Ladegerät und im Installationshandbuch für den Energiezähler. Diese QIG ist für die Verwendung durch qualifiziertes Elektrofachpersonal (Installateure) vorgesehen, das für die Installation des EV-Ladegeräts und des Energiezählers zum Zweck der Lastmanagementfunktionalität verantwortlich ist.

Lesen Sie diese QIG sorgfältig und aufmerksam durch, bevor Sie die Load management Funktionalität installieren. Befolgen Sie die Anweisungen in dieser QIG. Chargedot übernimmt keine Haftung für Schäden, die dadurch entstehen, dass die in dieser Kurzanleitung beschriebenen Anweisungen nicht oder nicht ordnungsgemäß befolgt und ausgeführt wurden.

Allgemein:

Warnung - Elektrische Geräte dürfen nur von qualifiziertem Elektrofachpersonal installiert, geöffnet, repariert und gewartet werden.



Die Elektroanlage sollte gemäß den örtlichen Gesetzen sowie Sicherheits- und Elektrovorschriften geplant und gebaut werden.

Stellen Sie sicher, dass der Hauptschalter des Verteilerschranks (Consumer Unit) auf AUS steht, bevor Sie mit den Installationsarbeiten beginnen. Führen Sie eine Spannungsprüfung durch, um sicherzustellen, dass die Stromversorgung ausgeschaltet ist.

Haftungsausschluss

Die Informationen in diesem Dokument können ohne vorherige Ankündigung geändert werden und sollten nicht als Verpflichtung seitens Chargedot ausgelegt werden. Chargedot übernimmt keine Verantwortung für eventuelle Fehler in diesem Dokument.

In keinem Fall kann Chargedot für direkte, indirekte, Sonder-, Neben- oder Folgeschäden jeglicher Art haftbar gemacht werden, die aus der Verwendung dieses Dokuments entstehen. Chargedot haftet zudem nicht für Neben- oder Folgeschäden, die durch die Verwendung der in diesem Dokument beschriebenen Soft- oder Hardware entstehen.

⚠ Warnung - Das Arbeiten mit Hochspannung ist potenziell lebensgefährlich. Personen, die Hochspannung ausgesetzt sind, können einen Herzstillstand, Verbrennungen am Körper oder andere schwere Verletzungen erleiden. Um solche Verletzungen zu vermeiden, trennen Sie unbedingt die Stromversorgung, bevor Sie mit der Installation beginnen.

⚠ Warnung - Aus Sicherheitsgründen wird empfohlen, das Gerät so zu installieren, dass ein versehentliches Erreichen oder Berühren der Klemmenblöcke ausgeschlossen ist.

Der beste Weg für eine sichere Installation besteht darin, das Gerät in einem Gehäuse zu installieren. Darüber hinaus sollte der Zugang zu den Geräten durch die Verwendung von Schloss und Schlüssel eingeschränkt und von Elektrofachpersonal kontrolliert werden.

⚠ Warnung - Betreiben Sie das Gerät nicht außerhalb der angegebenen technischen Daten.

Installationsvoraussetzungen - Um die Schutzanforderungen zu erfüllen, muss der Energiezähler in Gehäusen der Schutzart IP 51 oder besser gemäß IEC 60259 montiert werden.

Vorsicht – Achten Sie darauf, dass keine Flüssigkeit in den Zähler und das EV-Ladegerät gelangt, da dies zu Schäden am Gerät führen kann.

Bei Entfernung der Siegeletiketten erlischt die Gewährleistung und eine Fehlerfreiheit ist nicht mehr garantiert.

Dieses Handbuch gilt für die folgenden EV-Ladegerätemodelle und wird zur Kombination mit den angegebenen Energiezählermodellen empfohlen:

EV-Ladegerät			Energiesmessgerät		
Chargedot Teilenummer	Modell	Dreiphasig oder einphasig	ABB Teilenummer	Modell	Dreiphasig oder einphasig
6AGC082155	Terra AC W7-G5-R-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC082156	Terra AC W11-G5-R-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC082158	Terra AC W22-G5-R-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC105906	Terra AC W7-S-R-C-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC082154	Terra AC W22-S-R-C-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC082157	Terra AC W22-G5-R-C-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC081282	Terra AC W22-S-RD-MC-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118141	Terra AC W7-S-R	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118142	Terra AC-W11-S-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118143	Terra AC W22-S-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118144	Terra AC W7-G5-R	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118145	Terra AC W22-G5-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118146	Terra AC W7-S-R-C	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118147	Terra AC W22-S-R-C	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118148	Terra AC W22-S-RD-MC	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118149	Terra AC-W11-T-RD-PC	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118155	Terra AC W7-S-R	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118156	Terra AC-W11-S-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118157	Terra AC W22-S-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118158	Terra AC W7-G5-R	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118159	Terra AC W22-G5-R	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118160	Terra AC W7-S-R-C	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC118161	Terra AC W22-S-R-C	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118162	Terra AC W22-S-RD-MC	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC118163	Terra AC-W11-T-RD-PC	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128169	Terra AC W7-G5-R-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128178	Terra AC W7-G5-R-C-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128177	Terra AC W7-S-R-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128176	Terra AC W7-S-R-C-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128175	Terra AC W11-G5-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128174	Terra AC W11-S-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128173	Terra AC W22-G5-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig

6AGC128172	Terra AC W22-G5-R-C-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128171	Terra AC W22-S-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128170	Terra AC W22-S-R-C-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128195	Terra AC E7-S-R-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128196	Terra AC E7-S-R-C-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128197	Terra AC E7-G5-R-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128198	Terra AC E7-G5-R-C-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128199	Terra AC E11-S-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128200	Terra AC E11-G5-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128201	Terra AC E22-S-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128202	Terra AC E22-S-R-C-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128203	Terra AC E22-G5-R-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128204	Terra AC E22-G5-R-C-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Einphasig	2CMA100155R1000	B21 312-100	Einphasig
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Dreiphasig	2CMA100166R1000	B23 212-100	Dreiphasig

Energiezähler-Modelle

Für 1-Phasen-EV-Ladegeräte

ABB-Teilenummer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Für 3-Phasen-EV-Ladegeräte

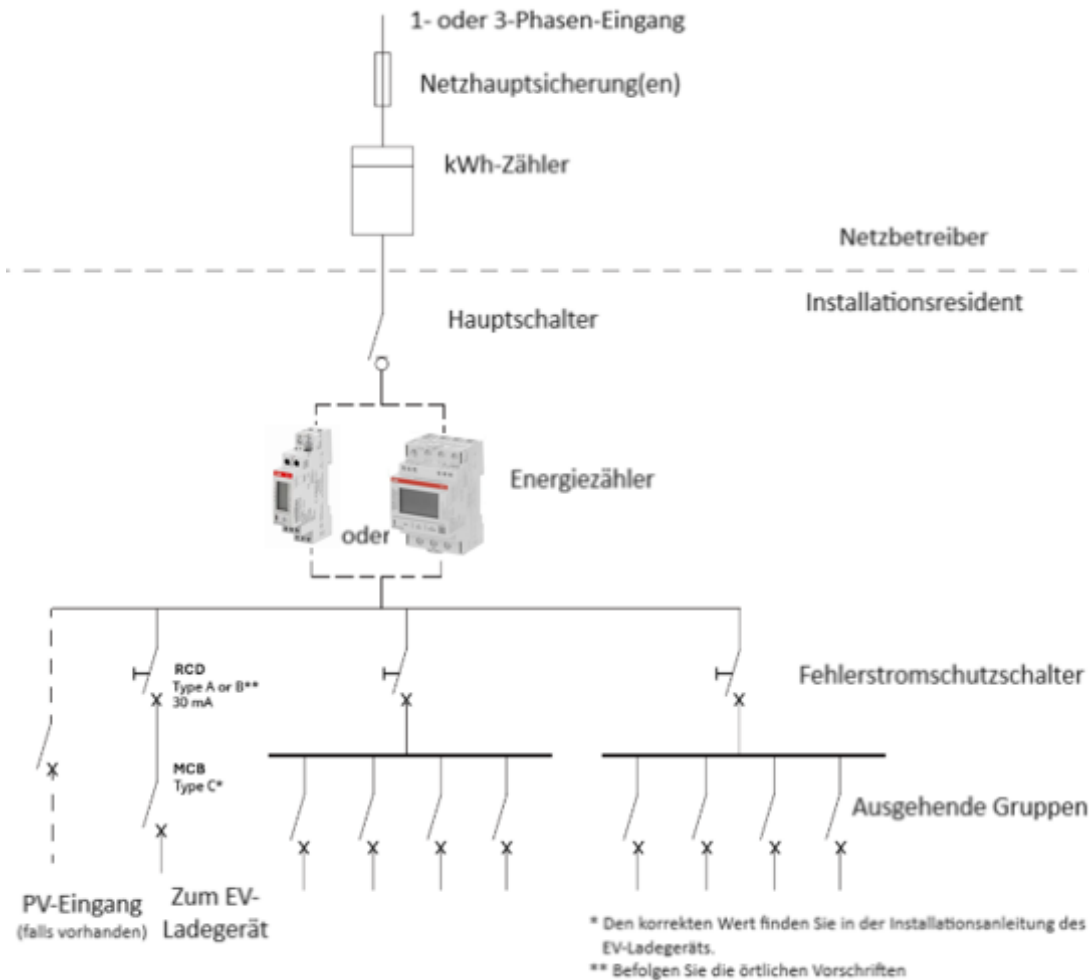
ABB-Teilenummer: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Für die mechanische und elektrische Installation des Energiezählers nutzen Sie die mitgelieferte Installationsanleitung (in der Verpackung des Energiezählers zu finden) oder laden Sie über den Link *Zum Download verfügbare Dokumente* Handbücher des verwendeten Energiezählers herunter

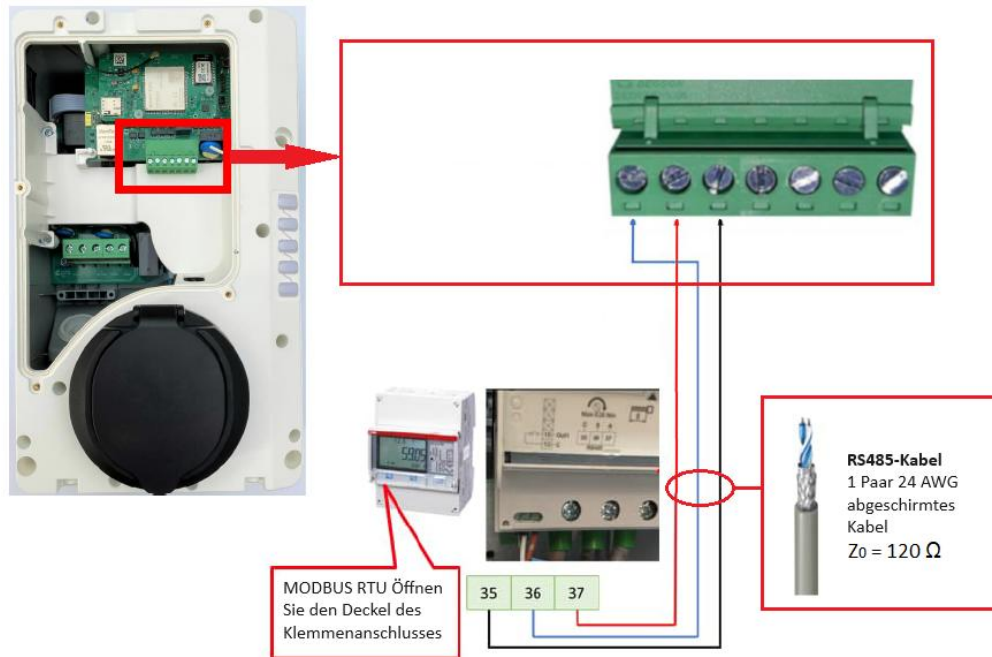


Der Hauptschalter dient nur zur sicheren Trennung während der Installation. Der Energiezähler kann überall dort platziert werden, wo er den gesamten Haushaltsverbrauch misst – wenn Ihr Fehlerstromschutzschalter den Strom abschalten kann, funktioniert er auch wie ein Hauptschalter.

Installieren Sie den Energiezähler hinter dem Hauptschalter und vor dem Verteilerschrank mit Fehlerstromschutzschaltern und Leistungsschaltern. Die obige Chargedotildung ist ein Beispiel für einen typischen Verteilerschrank für Privathaushalte (Consumer Unit).

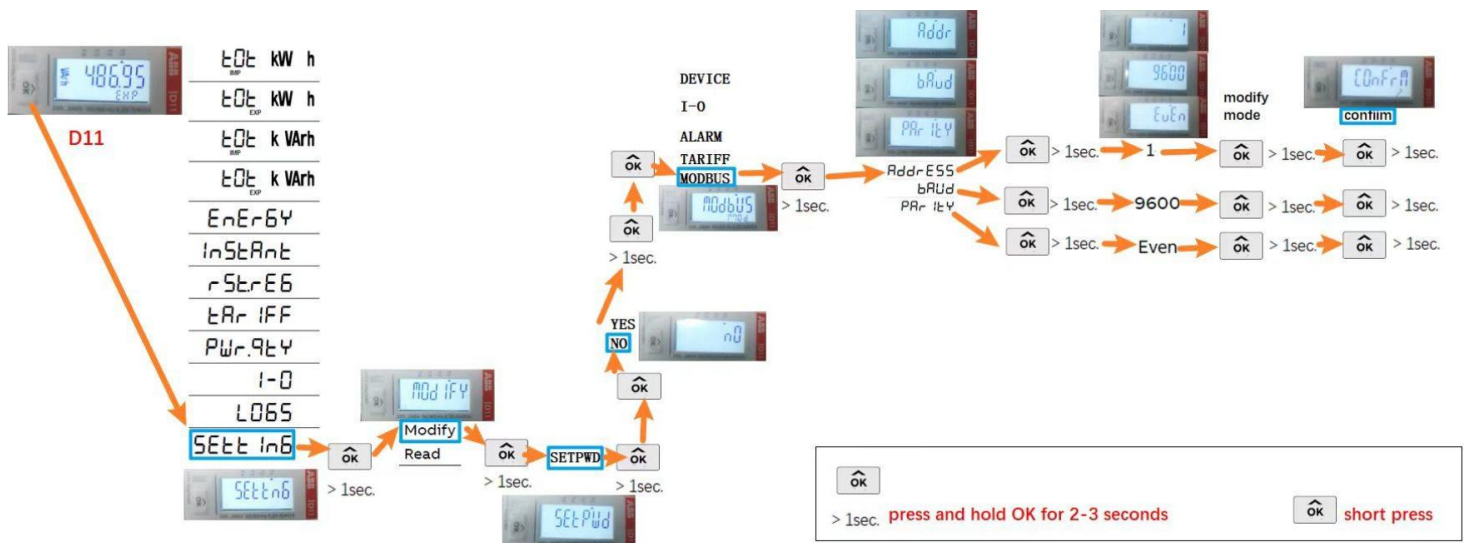


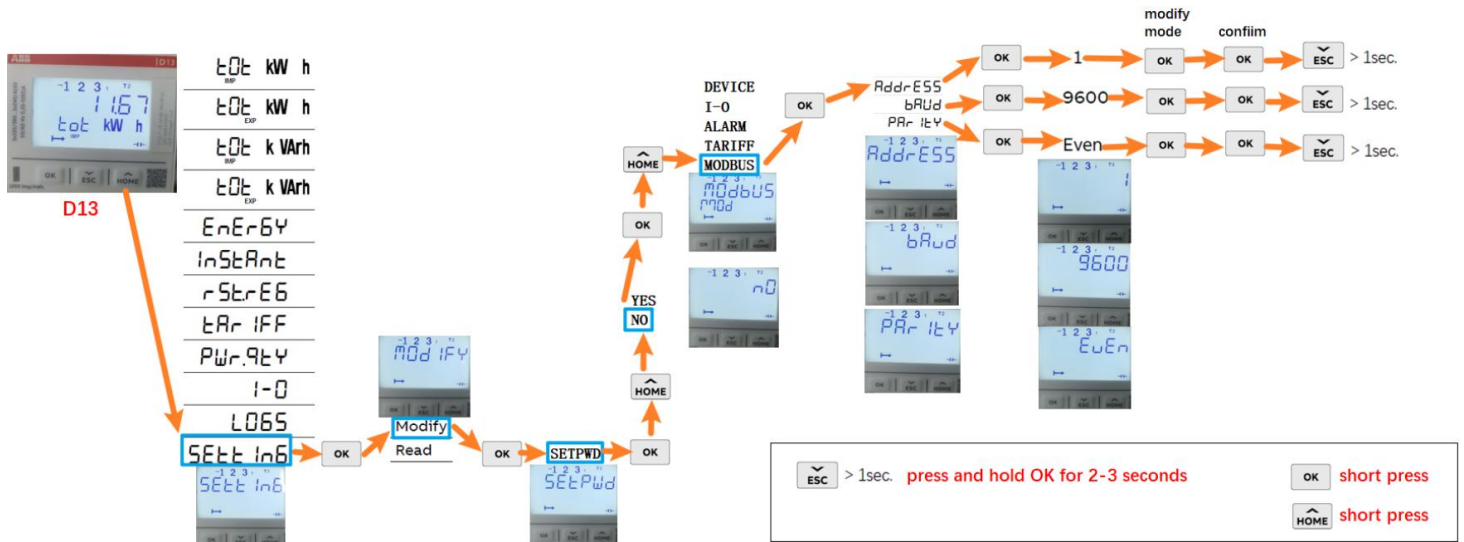
Warnung - Der Energiezähler muss auf der Eingangsseite immer durch Sicherungen geschützt werden. Weitere Informationen finden Sie in den Installationshandbüchern des Energiezählers.



Konfiguration des Energiezählers – keine Änderung erforderlich

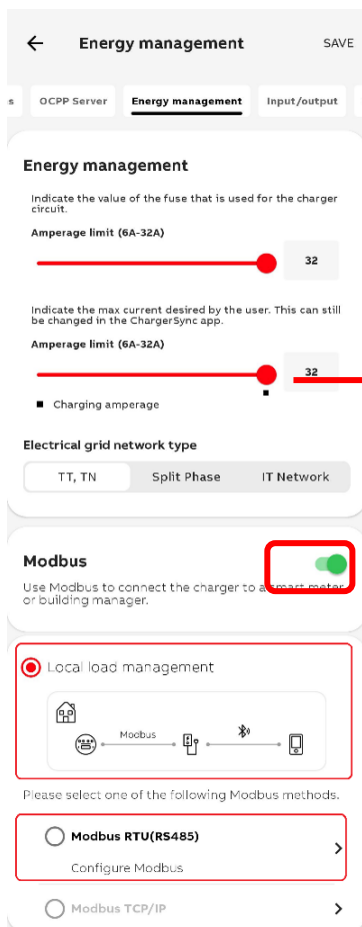
Die folgende Chargedotildung zeigt die werkseitigen Standardeinstellungen des Energiezählers. Diese sind die richtigen Einstellungen für das Lastmanagement und sollten nicht geändert werden.





Inbetriebnahme-App TerraConfig – für das Load management

Allgemeine Einstellungen zum Laden von Elektrofahrzeugen finden Sie im Online-Tutorial – Link zur Website [TerraConfig App – Übersicht \(Chargedot.com\)](#)

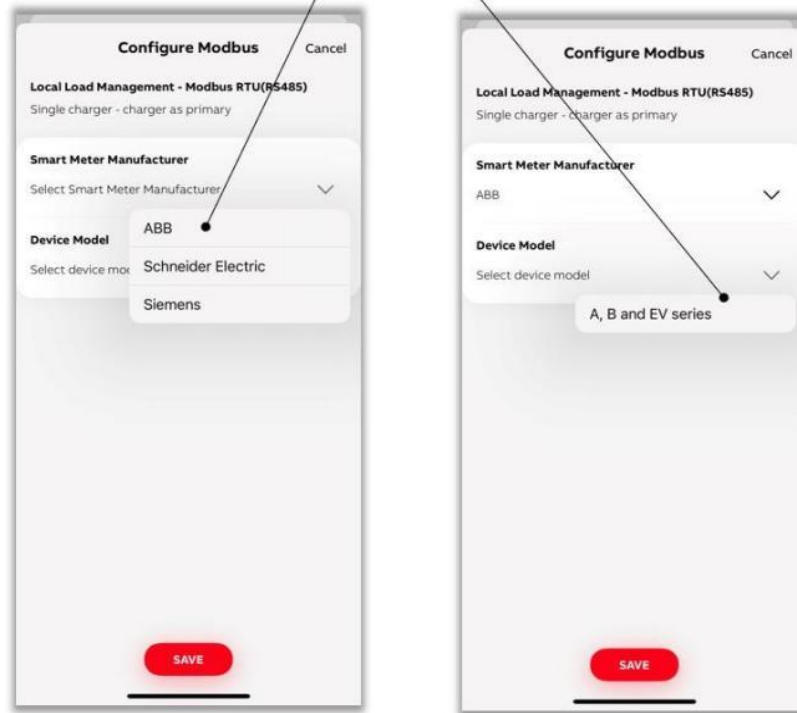


Lastmanagement:
Wählen Sie Lokales Load Management.
Wählen Sie: RTU (RS485)

➔ Den vom Benutzer einstellbaren Maximalstrom NICHT einstellen

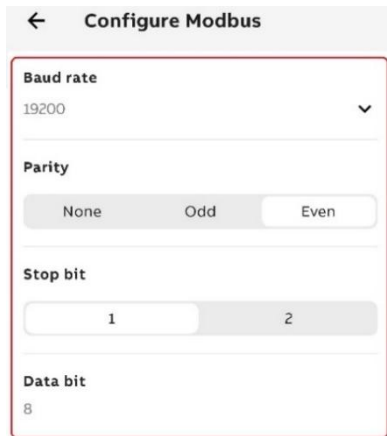
Beispiel für die Auswahl eines ABB-Zählers

Example of selecting ABB meter



Wählen Sie '**ABB**' im Dropdown-Menü **SmartMeter-Hersteller**.

Wählen richtigen modelle im Dropdown-Menü **Gerätemodell**.



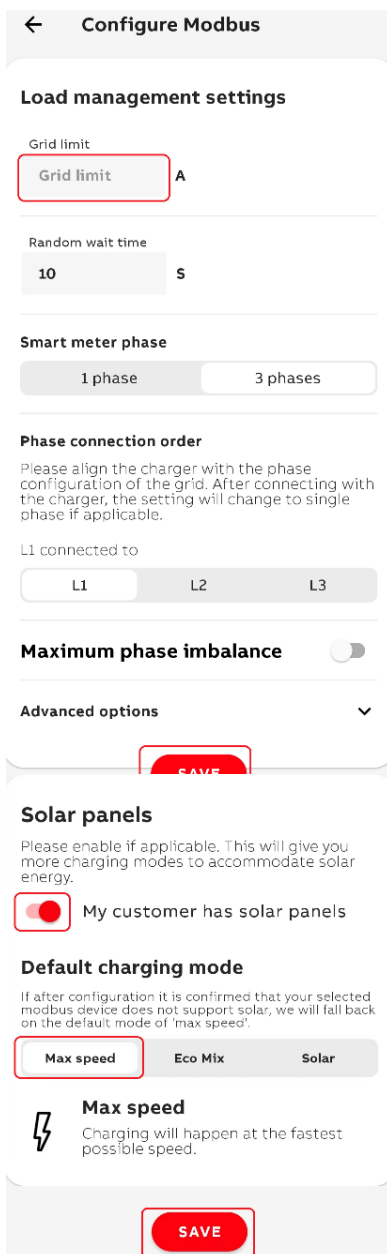
Stellen Sie die **Baudrate** auf '9600' ein

Stellen Sie die ein **Parität** auf 'Gleich' ein

Stop-Bit muss 1 sein und **Daten-Bit** muss 8 sein

HINWEIS

Der intelligente Zähler und das EV-Ladegerät sollten die gleichen Werte haben.



Netzgrenzwert: oberer Grenzwert (in Ampere) des Netzanschlusses, für den ein Lastausgleich durchgeführt werden soll. Bevor Sie diesen Wert einstellen, überprüfen Sie die Hauptsicherung der Hausanlage. Dieser Wert sollte nicht höher als die Hauptsicherung eingestellt werden!



Überprüfen Sie die „Phase des intelligenten Zählers“ und die „Phasenanschlussreihenfolge“, um sie mit dem Anlagenaufbau und den örtlichen Vorschriften in Einklang zu bringen.

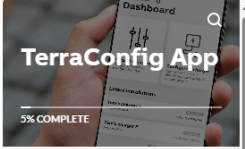
HINWEIS:

WENN Solarmodule vorhanden sind, nur maximale Geschwindigkeit wählen
Wählen Sie niemals EcoMix oder Solar

Drücken Sie die Schaltfläche **SPEICHERN**, um die Einstellungen zu speichern.

Bitte schließen Sie mit der Bestätigung der Konfiguration ab, um die Konfiguration auf dem EV-Ladegerät zu speichern.

Für erweiterte Einstellungen/Anweisungen folgen Sie bitte dem Link [TerraConfig App – Übersicht \(Chargedot.com\)](https://www.chargedot.com/TerraConfigApp) und gehen Sie zu Energiemanagement / und folgen Sie den Registerkarten.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

Ελληνικά

Ο παρών Οδηγός γρήγορης εγκατάστασης (QIG) περιγράφει συνοπτικά τα πιο σημαντικά βήματα εγκατάστασης και διαμόρφωσης για τη λειτουργικότητα load management του φορτιστή ηλεκτρικών οχημάτων. Αυτό το QIG δεν αντικαθιστά το εγχειρίδιο εγκατάστασης του κατασκευαστή του φορτιστή ηλεκτρικών οχημάτων και του μετρητή ενέργειας, είναι συμπληρωματικό αυτών των εγγράφων. Πιο λεπτομερείς πληροφορίες διατίθενται στο εγχειρίδιο εγκατάστασης του φορτιστή ηλεκτρικών οχημάτων και στο εγχειρίδιο εγκατάστασης του μετρητή ενέργειας. Αυτό το QIG προορίζεται να χρησιμοποιηθεί από εξειδικευμένο ηλεκτρολογικό προσωπικό (τεχνικός εγκατάστασης) που είναι υπεύθυνο για την εγκατάσταση του φορτιστή ηλεκτρικών οχημάτων και του μετρητή ενέργειας για τους σκοπούς της λειτουργικότητας load management.

Πριν εγκαταστήσετε τη λειτουργικότητα load management, διαβάστε προσεκτικά αυτό το QIG. Ακολουθήστε τις οδηγίες του παρόντος QIG. Η Chargedot δεν ευθύνεται για οποιαδήποτε ζημιά που έχει προκληθεί από τη μη τήρηση ή την εσφαλμένη εκτέλεση των οδηγιών που περιγράφονται σε αυτό το QIG.

Γενικά:



- **Προειδοποίηση** - Η εγκατάσταση, η πρόσβαση, η επισκευή και η συντήρηση του ηλεκτρικού εξοπλισμού θα πρέπει να πραγματοποιείται μόνο από εξειδικευμένο ηλεκτρολογικό προσωπικό.
- Η ηλεκτρική εγκατάσταση θα πρέπει να σχεδιάζεται και να κατασκευάζεται σύμφωνα με την τοπική νομοθεσία, τους κανονισμούς ασφαλείας και τους ηλεκτρικούς κανονισμούς.
- Βεβαιωθείτε ότι ο κεντρικός διακόπτης του ερμαρίου διανομής (Μονάδα Καταναλωτή) έχει τεθεί στη θέση OFF, πριν ξεκινήσετε τις εργασίες εγκατάστασης. Κάντε έναν έλεγχο τάσης για να βεβαιωθείτε ότι η ηλεκτρική τροφοδοσία είναι απενεργοποιημένη.

Αποποίηση Ευθύνης

Οι πληροφορίες στο παρόν έγγραφο υπόκεινται σε αλλαγές χωρίς προειδοποίηση και δεν πρέπει να ερμηνεύονται ως δέσμευση της Chargedot. Η Chargedot δεν αναλαμβάνει καμία ευθύνη για τυχόν σφάλματα που ενδέχεται να εμφανιστούν στο παρόν έγγραφο.

Η Chargedot δεν ευθύνεται, σε καμία περίπτωση, για άμεσες, έμμεσες, ειδικές, τυχαίες ή επακόλουθες ζημιές πάσης φύσεως ή είδους που προκύπτουν από τη χρήση του παρόντος εγγράφου, ούτε θα ευθύνεται η Chargedot για τυχαίες ή επακόλουθες ζημιές που προκύπτουν από τη χρήση οποιουδήποτε λογισμικού ή υλικού που περιγράφεται στο παρόν έγγραφο.

⚠ Προειδοποίηση – Η εργασία με υψηλή τάση είναι δυνητικά θανατηφόρα. Άτομα που υπόκεινται σε υψηλή τάση μπορεί να υποστούν καρδιακή ανακοπή, θερμικά εγκαύματα ή άλλους σοβαρούς τραυματισμούς. Για να αποφύγετε αυτούς τους τραυματισμούς, φροντίστε να αποσυνδέσετε την παροχή ρεύματος πριν ξεκινήσετε την εγκατάσταση.

⚠ Προειδοποίηση – Για λόγους ασφαλείας, συνιστάται η εγκατάσταση του εξοπλισμού με τρόπο που να καθιστά αδύνατη την τυχαία πρόσβαση ή επαφή με τα μπλοκ ακροδεκτών.

Ο καλύτερος τρόπος για να επιτύχετε μια ασφαλή εγκατάσταση είναι να εγκαταστήσετε τη μονάδα εντός περιβλήματος. Επιπλέον, η πρόσβαση στον εξοπλισμό θα πρέπει να περιορίζεται με τη χρήση κλειδαριάς και κλειδιού, τα οποία ελέγχονται από εξειδικευμένο ηλεκτρολογικό προσωπικό.

⚠ Προειδοποίηση – Μη χρησιμοποιείτε τον εξοπλισμό εκτός του πεδίου εφαρμογής των καθορισμένων τεχνικών δεδομένων.

Απαιτήσεις εγκατάστασης – Για να συμμορφωθεί με τις απαιτήσεις προστασίας, ο μετρητής ενέργειας πρέπει να είναι τοποθετημένος σε περιβλήματα κλάση βαθμού προστασίας IP 51 ή καλύτερα, σύμφωνα με το πρότυπο IEC 60259.

Προσοχή – Προσέξτε να μην εισχωρήσει υγρό στο μετρητή και στο φορτιστή ηλεκτρικών οχημάτων, καθώς ενδέχεται να προκληθεί ζημιά στον εξοπλισμό.

Η εγγύηση και η ακρίβεια ακυρώνονται σε περίπτωση που αφαιρεθούν οι ετικέτες σφράγισης.

Το παρόν εγχειρίδιο ισχύει για τα ακόλουθα μοντέλα φορτιστή ηλεκτρικών οχημάτων και συνιστάται να συνδυάζεται με τα υποδεικνυόμενα μοντέλα μετρητών ενέργειας:

Φορτιστής ηλεκτρικών οχημάτων			Μετρητής ενέργειας		
Αριθμός εξαρτήματος Chargedot	Μοντέλο	Τριφασικό ή μονοφασικό	Αριθμός εξαρτήματος ABB	Μοντέλο	Τριφασικό ή μονοφασικό
6AGC082155	Terra AC W7-G5-R-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC082156	Terra AC W11-G5-R-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC082158	Terra AC W22-G5-R-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC105906	Terra AC W7-S-R-C-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC082154	Terra AC W22-S-R-C-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC082157	Terra AC W22-G5-R-C-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC081282	Terra AC W22-S-RD-MC-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118141	Terra AC W7-S-R	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118142	Terra AC-W11-S-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118143	Terra AC W22-S-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118144	Terra AC W7-G5-R	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118145	Terra AC W22-G5-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118146	Terra AC W7-S-R-C	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118147	Terra AC W22-S-R-C	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118148	Terra AC W22-S-RD-MC	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118149	Terra AC-W11-T-RD-PC	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118155	Terra AC W7-S-R	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118156	Terra AC-W11-S-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118157	Terra AC W22-S-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118158	Terra AC W7-G5-R	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118159	Terra AC W22-G5-R	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118160	Terra AC W7-S-R-C	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC118161	Terra AC W22-S-R-C	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118162	Terra AC W22-S-RD-MC	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC118163	Terra AC-W11-T-RD-PC	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128169	Terra AC W7-G5-R-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128178	Terra AC W7-G5-R-C-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128177	Terra AC W7-S-R-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128176	Terra AC W7-S-R-C-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128175	Terra AC W11-G5-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό

6AGC128174	Terra AC W11-S-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128173	Terra AC W22-G5-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128172	Terra AC W22-G5-R-C-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128171	Terra AC W22-S-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128170	Terra AC W22-S-R-C-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128195	Terra AC E7-S-R-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128196	Terra AC E7-S-R-C-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128197	Terra AC E7-G5-R-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128198	Terra AC E7-G5-R-C-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128199	Terra AC E11-S-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128200	Terra AC E11-G5-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128201	Terra AC E22-S-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128202	Terra AC E22-S-R-C-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128203	Terra AC E22-G5-R-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128204	Terra AC E22-G5-R-C-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Μονοφασικό	2CMA100155R1000	B21 312-100	Μονοφασικό
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Τριφασικό	2CMA100166R1000	B23 212-100	Τριφασικό

Μοντέλα μετρητών ενέργειας

Για μονοφασικούς φορτιστές ηλεκτρικών οχημάτων

Αριθμός εξαρτήματος ABB:

2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Για τριφασικούς φορτιστές ηλεκτρικών οχημάτων

Αριθμός εξαρτήματος ABB:

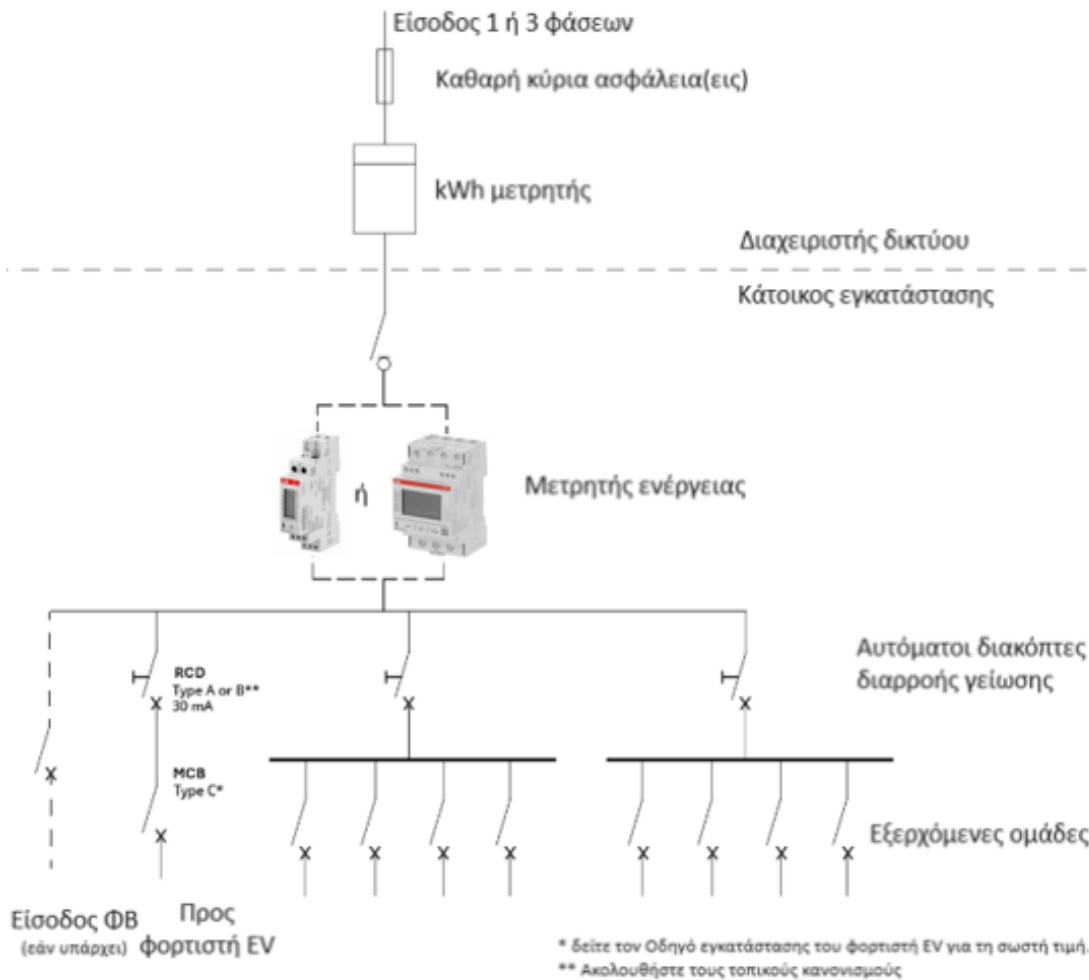
2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



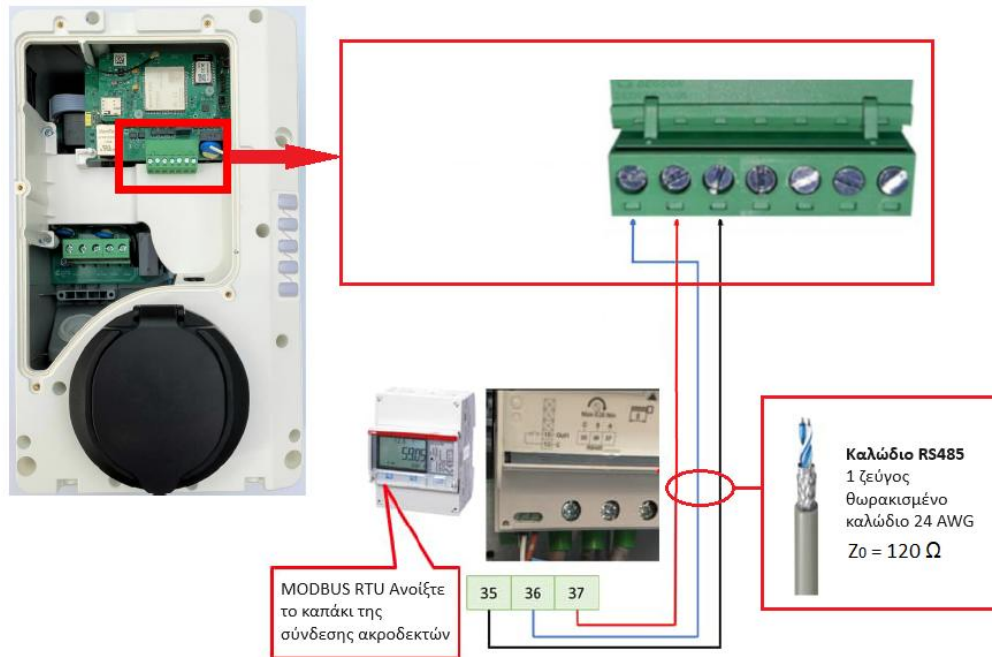
Για τη μηχανική και ηλεκτρική εγκατάσταση του μετρητή ενέργειας, χρησιμοποιήστε τις οδηγίες εγκατάστασης που περιλαμβάνονται (μπορείτε να τις βρείτε στη συσκευασία του μετρητή ενέργειας) ή πραγματοποιήστε λήψη των εγχειριδίων του χρησιμοποιούμενου μετρητή ενέργειας στον παραπάνω σύνδεσμο [Λήψη διαθέσιμων εγγράφων](#).



Ο κεντρικός διακόπτης χρησιμεύει μόνο για ασφαλή απενεργοποίηση κατά την εγκατάσταση. Ο μετρητής ενέργειας μπορεί να τοποθετηθεί οπουδήποτε μετρά τη συνολική κατανάλωση του νοικοκυριού – εάν ο διακόπτης διαρροής γης μπορεί να διακόψει την τροφοδοσία, λειτουργεί και ως κεντρικός διακόπτης.

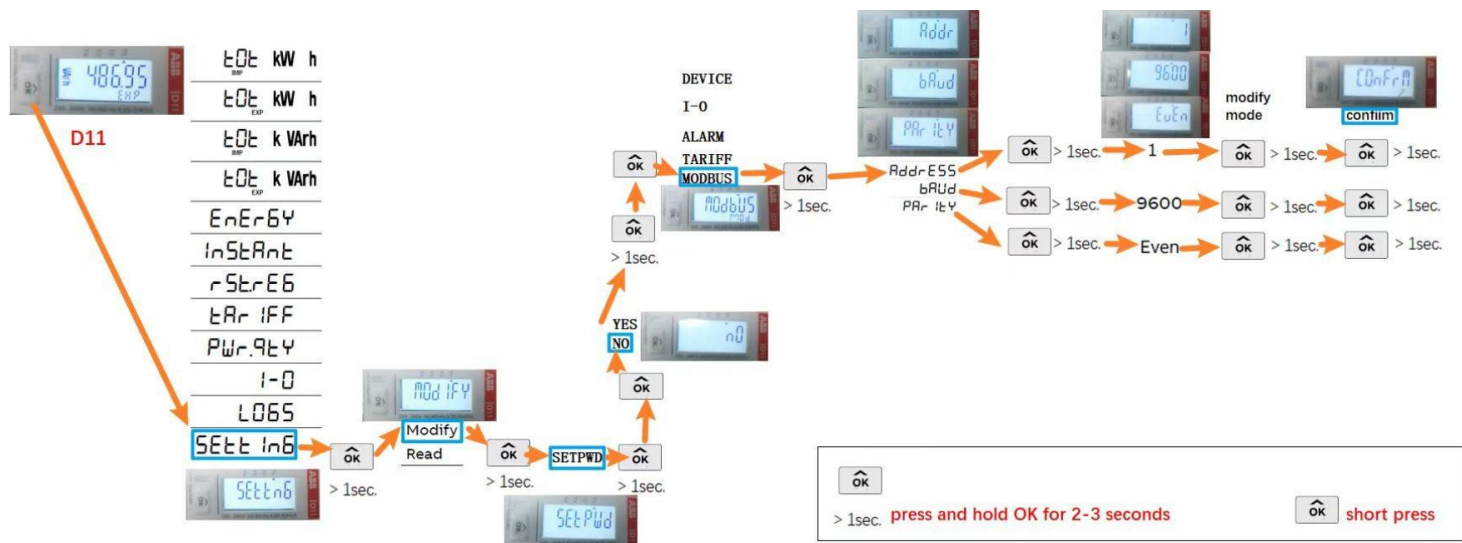
Εγκαταστήστε το μετρητή ενέργειας μετά τον κεντρικό διακόπτη και πριν από το ερμάριο διανομής με διακόπτες και διακόπτες διαρροής γείωσης. Το παραπάνω σχήμα είναι ένα παράδειγμα ενός τυπικού ερμαρίου διανομής οικιακής χρήσης (Μονάδα Καταναλωτή).

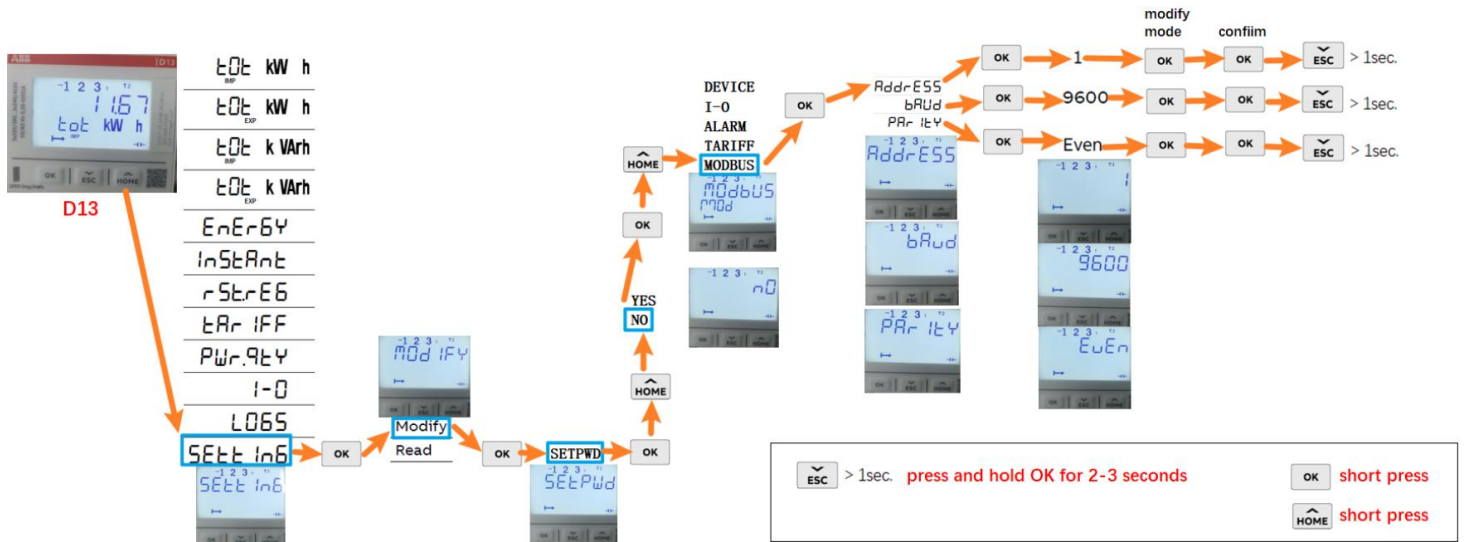
Προειδοποίηση - Ο μετρητής ενέργειας πρέπει να προστατεύεται πάντα με ασφάλειες στην πλευρά εισόδου. Για περισσότερες πληροφορίες δείτε τα εγχειρίδια εγκατάστασης του μετρητή ενέργειας.



Διαμόρφωση μετρητή ενέργειας - δεν απαιτείται αλλαγή

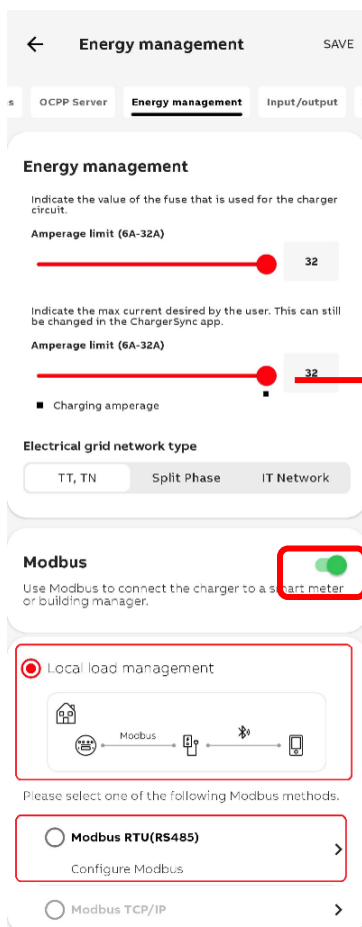
Το παρακάτω σχήμα δείχνει τις προεπιλεγμένες εργοστασιακές ρυθμίσεις του μετρητή ενέργειας. Αυτές είναι οι σωστές ρυθμίσεις για τη λειτουργία load management και δεν πρέπει να αλλάξουν.





Εφαρμογή TerraConfig για τη θέση σε λειτουργία - για το load management

Για γενικές ρυθμίσεις φόρτισης ηλεκτρικών οχημάτων, ανατρέξτε στο διαδικτυακό σεμινάριο - σύνδεσμος προς τον ιστότοπο [TerraConfig App - Overview \(Chargedot.com\)](https://www.chargedot.com/en/terraconfig-app-overview)

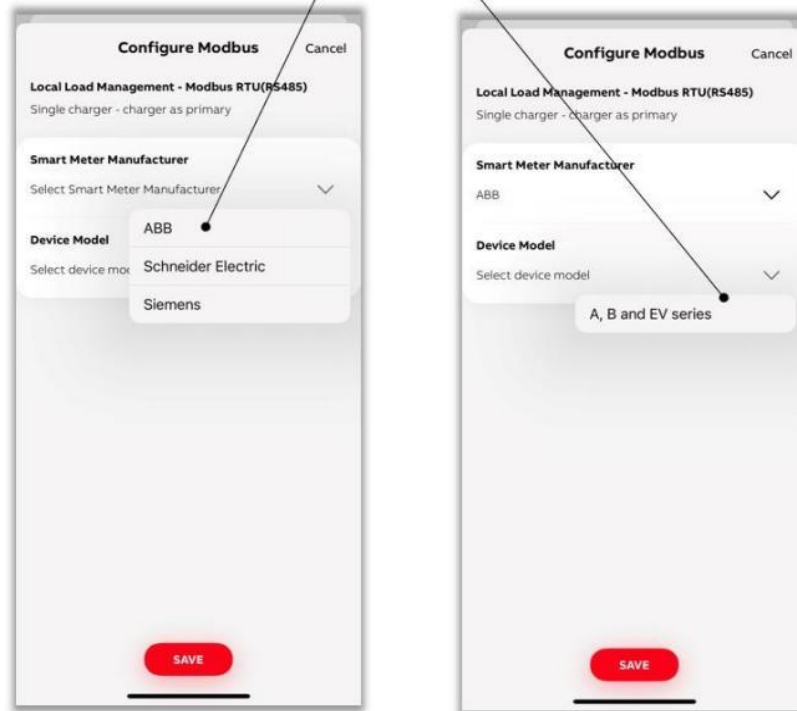


Load Management:
Επιλέξτε Τοπικό Load Management
Επιλέξτε: RTU(RS485)

➔ Μη ορίσετε το ρυθμιζόμενο από τον χρήστη μέγιστο ρεύμα

Παράδειγμα
επιλογής μετρητή ABB

Example of
selecting ABB meter



Επιλέξτε «**ABB**» από το αναπτυσσόμενο μενού **SmartMeter Manufacturer** (Κατασκευαστής Έξυπνου μετρητή).

Επιλέξτε σωστές μοντέλα από το αναπτυσσόμενο μενού **Device Model** (Μοντέλο Συσκευής).

←

Configure Modbus

Baud rate

19200

▼

Parity

None

Odd

Even

Stop bit

1

2

Data bit

8

13:42

⬆️📶🔋

Configure Modbus

Cancel

Load Management Settings

Grid Limit

Enter Grid Limit

A

Random wait time

10

s

Smart meter phase

1 phase

3 phases

Phase Connection Order

Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to

L1

L2

L3

L2 connected to L2

L3 connected to L3

Maximum Phase Imbalance

☒

Advanced Options

▼

Solar panels

Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode

If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed

Eco Mix

Solar

⚡

Max speed

Charging will happen at the fastest possible speed.

SAVE

Ρυθμίστε το **Baud Rate** (Ρυθμός Baud) σε **"9600"**

Ρυθμίστε το **Parity** (Ισοτιμία) σε «**Even**» (Άρτια)

Το **Stop bit** (bit διακοπής) πρέπει να είναι 1 και το **Data bit** (bit δεδομένων) πρέπει να είναι 8

ΣΗΜΕΙΩΣΗ

Ο έξυπνος μετρητής και ο φορτιστής ηλεκτρικών οχημάτων θα πρέπει να έχουν τις ίδιες τιμές.

Grid limit (Όριο δικτύου): μέγιστο όριο (σε Ampere) της σύνδεσης δικτύου για το οποίο πρέπει να πραγματοποιηθεί εξισορρόπηση φορτίου. Πριν να ορίσετε αυτήν την τιμή, ελέγξτε την κύρια ασφάλεια της οικιακής εγκατάστασης. Η τιμή αυτή δεν πρέπει να ρυθμίζεται υψηλότερα από την κύρια ασφάλεια!



Να ελέγξετε αν το «Smart meter phase» (Φάση έξυπνου μετρητή) και το «Phase connection order» (Σειρά σύνδεσης φάσης) είναι σύμφωνα με τη ρύθμιση εγκατάστασης και τους τοπικούς κανονισμούς.

ΣΗΜΕΙΩΣΗ:

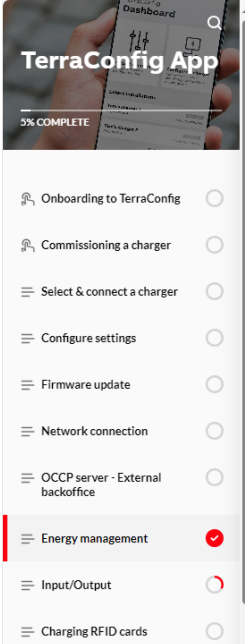
Εάν υπάρχουν ηλιακά πάνελ, επιλέξτε μόνο μέγιστη ταχύτητα

Μη μην επιλέγετε EcoMix ή Solar

Πατήστε το κουμπί **SAVE** (Αποθήκευση) για να αποθηκεύσετε τις ρυθμίσεις.

Τελειώστε με επιβεβαίωση της διαμόρφωσης για να αποθηκεύσετε τη διαμόρφωση του φορτιστή ηλεκτρικών οχημάτων.

Για προχωρημένες ρυθμίσεις/οδηγίες, ακολουθήστε τον σύνδεσμο [TerraConfig App - Overview \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-App-Overview) και μεταβείτε στο Energy management (Διαχείριση ενέργειας) / και ακολουθήστε τις καρτέλες.



ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Magyar

Ez a gyors telepítési útmutató (QIG) röviden leírja az EV-töltő load management funkciójának legfontos Chargedot telepítési és konfigurációs lépéseit. Ez a QIG nem helyettesíti az EV-töltő és az energiamérő gyártói telepítési kézikönyvét, hanem kiegészíti ezeket a dokumentumokat. Részletesebb információ az EV-töltő telepítési kézikönyvében és az energiamérő telepítési kézikönyvében található. Ez a QIG olyan szakképzett elektromos személyzet (telepítő) általi használatra szolgál, aki felelős az EV-töltő és az energiamérő load management funkció céljából végzett telepítéséért.

A load management funkció telepítése előtt alaposan és figyelmesen olvassa el ezt a QIG-t. Kövesse a jelen QIG utasításait. Az Chargedot nem vállal felelősséget az olyan károkért, amelyeket a jelen kézikönyvben leírt utasítások be nem tartása vagy helytelen végrehajtása okozott.

Általános tudnivalók



- **Figyelem** – Az elektromos berendezéseket csak szakképzett elektromos személyzet telepítheti, érheti el, szervizelheti és tarthatja karban.
- Az elektromos telepítést a helyi törvényeknek, valamint a biztonsági és elektromos előírásoknak megfelelően kell megtervezni és kiépíteni.
- A telepítési munkák megkezdése előtt győződjön meg arról, hogy az elosztószekrény (fogyasztói egység) főkapcsolója OFF (KI) állásban van. Ellenőrizze a feszültséget, hogy megbizonyosodjon arról, hogy az elektromos áram KI van kapcsolva.

Felelősség kizárása

A dokumentumban szereplő információk előzetes értesítés nélkül megváltozhatnak, és nem minősülnek kötelezettségvállalásnak az Chargedot részéről. Az Chargedot nem vállal felelősséget a jelen dokumentumban esetlegesen előforduló hibákért.

Az Chargedot semmilyen esetben sem vállal felelősséget a jelen dokumentum használatából eredő semmilyen természetű vagy jellegű közvetlen, közvetett, különleges, véletlen vagy következményes károkért, sem a jelen dokumentumban leírt szoftver vagy hardver használatából eredő véletlen vagy következményes károkért.

Figyelem – A nagyfeszültséggel végzett munka potenciálisan halálos. A nagyfeszültségnek kitett személyek szív-megállást, deréktáji sérüléseket vagy más súlyos sérüléseket szenvedhetnek. Az ilyen sérülések elkerülése érdekében a telepítés megkezdése előtt válassza le a tápellátást.

Figyelem – Biztonsági okokból ajánlatos a berendezést úgy telepíteni, hogy ne lehessen véletlenül elérni vagy megérinteni a sorkapcsokat.

A biztonságos telepítés legjobb módja, ha az egységet egy burkolatba szereli. Továbbá, a berendezéshez való hozzáférést zár és kulcs használatával kell korlátozni, amelyet szakképzett elektromos személyzetnek kell ellenőriznie.

Figyelem – Ne üzemeltesse a berendezést a megadott műszaki adatokon kívül.

Telepítési követelmények – A védelmi követelményeknek való megfelelés érdekében az energiamérőt IP 51-es vagy annál jobb védettségi osztályba tartozó készülékházba kell szerelni, az IEC 60259 szabványnak megfelelően.

Vigyázat – Ügyeljen arra, hogy ne kerüljön folyadék a mérőbe és az EV-töltőbe, mert károsíthatja a berendezést.

A garancia és a pontosság érvényét veszti, ha eltávolítják a lezáró címkéket.

Ez a kézikönyv a következő EV-töltő modellekre vonatkozik, és javasolt a megadott energiamérő-modellekkel kombinálni:

EV-töltő			Energiamérő		
Chargedot alkatrészszám	Modell	Háromfázisú vagy egyfázisú	ABB alkatrészszám	Modell	Háromfázisú vagy egyfázisú
6AGC082155	Terra AC W7-G5-R-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC082156	Terra AC W11-G5-R-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC082158	Terra AC W22-G5-R-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC105906	Terra AC W7-S-R-C-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC082154	Terra AC W22-S-R-C-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC082157	Terra AC W22-G5-R-C-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC081282	Terra AC W22-S-RD-MC-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118141	Terra AC W7-S-R	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118142	Terra AC-W11-S-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118143	Terra AC W22-S-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118144	Terra AC W7-G5-R	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118145	Terra AC W22-G5-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118146	Terra AC W7-S-R-C	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118147	Terra AC W22-S-R-C	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118148	Terra AC W22-S-RD-MC	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118149	Terra AC-W11-T-RD-PC	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118155	Terra AC W7-S-R	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118156	Terra AC-W11-S-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118157	Terra AC W22-S-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118158	Terra AC W7-G5-R	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118159	Terra AC W22-G5-R	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118160	Terra AC W7-S-R-C	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC118161	Terra AC W22-S-R-C	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118162	Terra AC W22-S-RD-MC	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC118163	Terra AC-W11-T-RD-PC	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128169	Terra AC W7-G5-R-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128178	Terra AC W7-G5-R-C-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128177	Terra AC W7-S-R-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128176	Terra AC W7-S-R-C-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128175	Terra AC W11-G5-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128174	Terra AC W11-S-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128173	Terra AC W22-G5-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128172	Terra AC W22-G5-R-C-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128171	Terra AC W22-S-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128170	Terra AC W22-S-R-C-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú

6AGC128859	Terra AC W22-S-RD-MC-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128195	Terra AC E7-S-R-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128196	Terra AC E7-S-R-C-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128197	Terra AC E7-G5-R-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128198	Terra AC E7-G5-R-C-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128199	Terra AC E11-S-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128200	Terra AC E11-G5-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128201	Terra AC E22-S-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128202	Terra AC E22-S-R-C-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128203	Terra AC E22-G5-R-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128204	Terra AC E22-G5-R-C-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Egyfázisú	2CMA100155R1000	B21 312-100	Egyfázisú
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Háromfázisú	2CMA100166R1000	B23 212-100	Háromfázisú

Energiamérő modellek

1 fázisú EV-töltőkhöz

ABB cikkszám: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3 fázisú EV-töltőkhöz

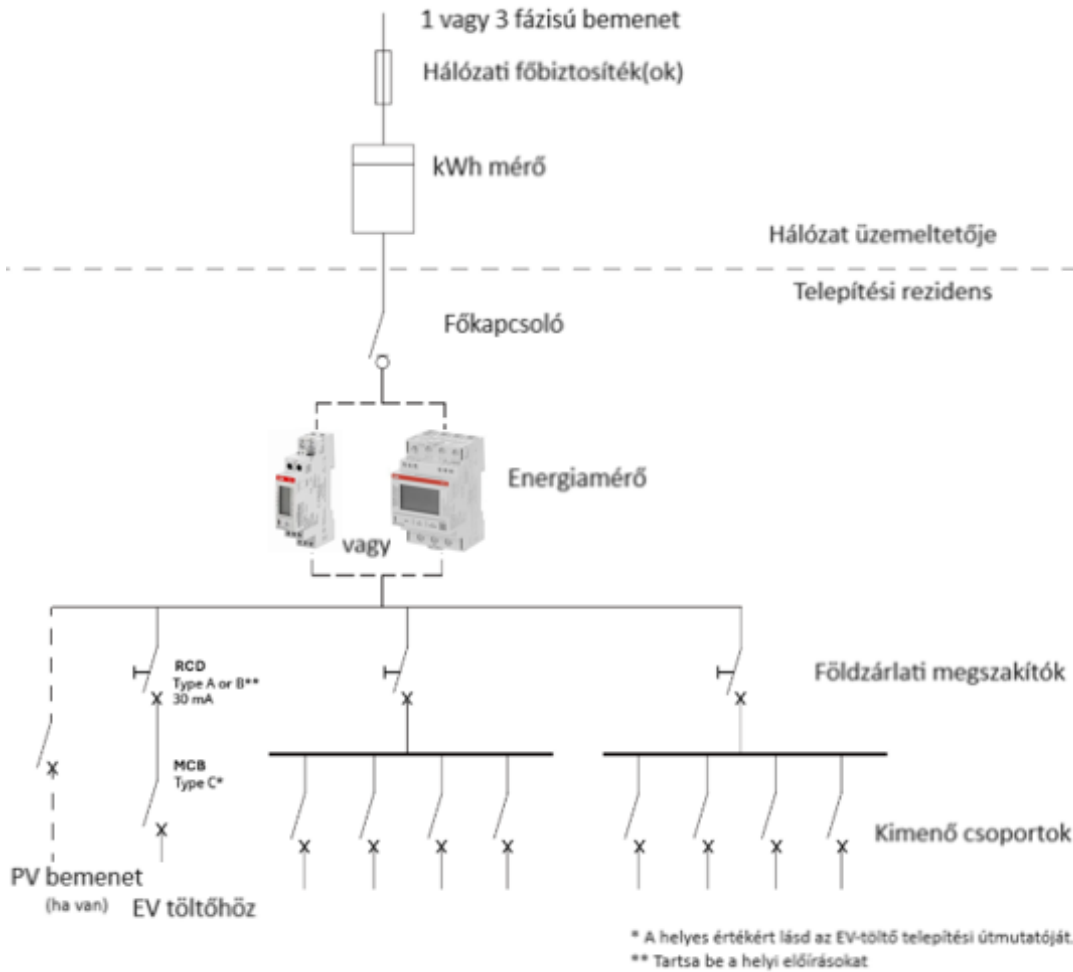
ABB cikkszám: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



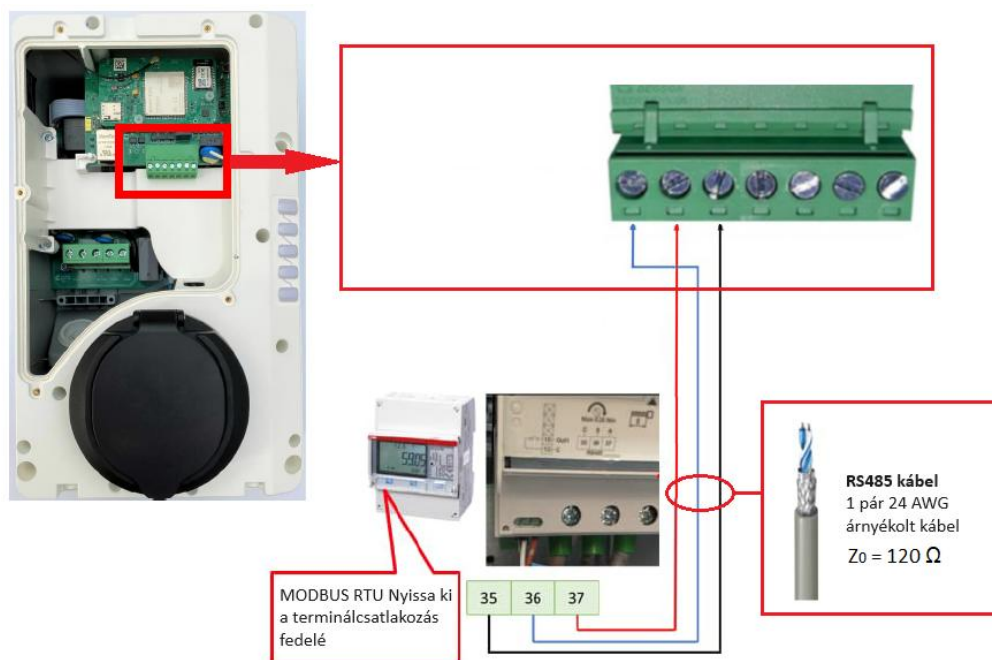
Az Energiamérő mechanikus és elektromos telepítéséhez használja a mellékelt telepítési utasításokat (az Energiamérő csomagolásában találhatók), vagy töltsse le a használt Energiamérő kézikönyvét a fenti *Elérhető dokumentumok letöltése* linkről.



A főkapcsoló csak a biztonsági leválasztást szolgálja a telepítés során. Az energiamérő bárhová elhelyezhető, ahol a teljes háztartási fogyasztást méri – ha a földzárlat-védőkapcsolója le tudja kapcsolni a tápfeszültséget, akkor az is főkapcsolóként működik.

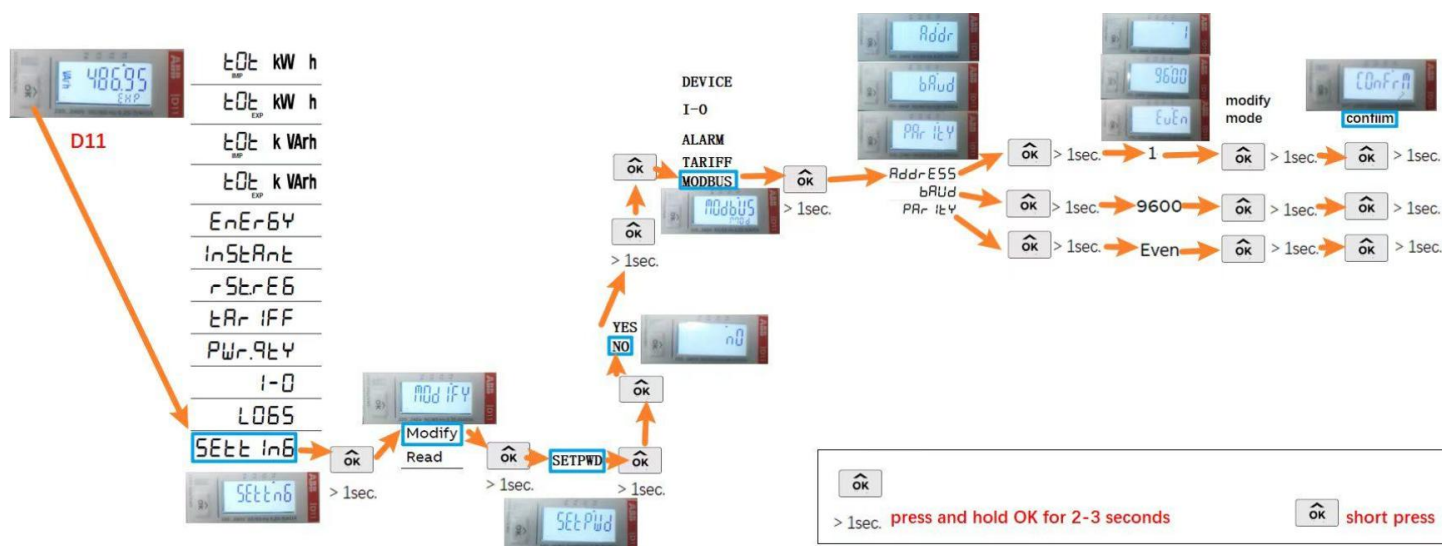
Szerelje fel az energiamérőt a főkapcsoló után és az elosztószekrény elé földzárlati megszakítókkal és megszakítókkal. A fenti ábra egy tipikus lakossági elosztószekrény (fogyasztói egység) példája.

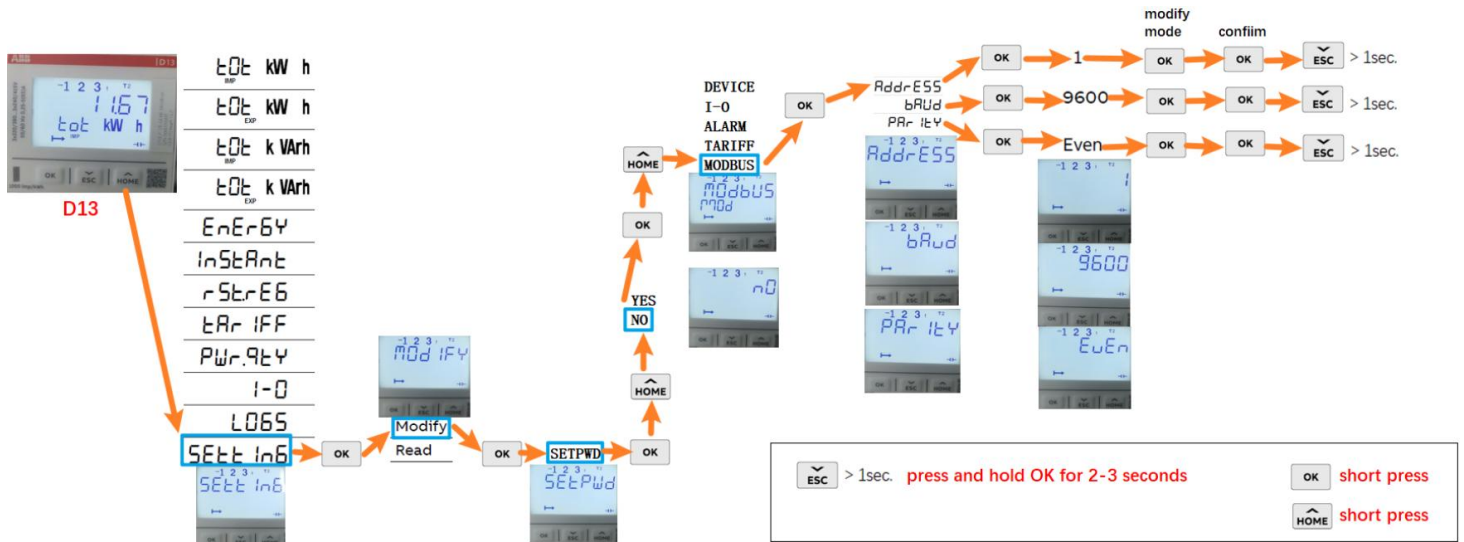
Figyelem - Az energiamérőt mindig biztosítókkal kell védeni a bemeneti oldalon. További információért tekintse meg az energiamérő telepítési útmutatóját.



Energiamérő konfiguráció – nincs szükség változtatásra

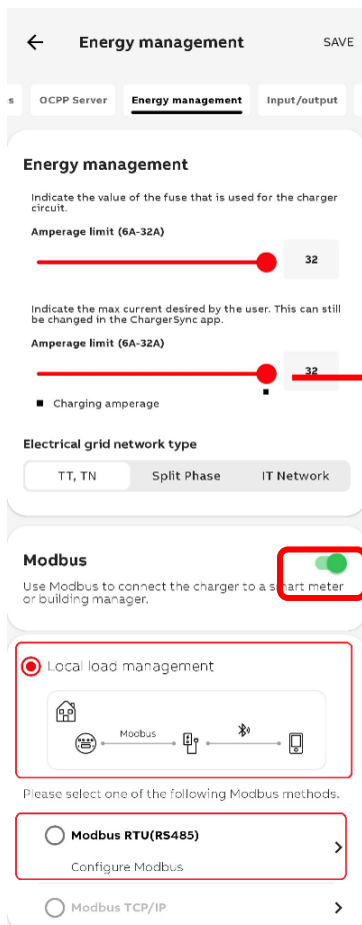
Az alábbi ábra az energiamérő alapértelmezett gyári beállításait mutatja. Ezek a load management helyes beállításai, és nem módosíthatók.





TerraConfig üzembe helyezési alkalmazás – load management-hez

Az elektromos járművek általános töltési beállításaiért tekintse meg az online oktatóanyagot – a webhelyre mutató link:
[TerraConfig App – Áttekintés \(Chargedot.com\)](https://chargedot.com)

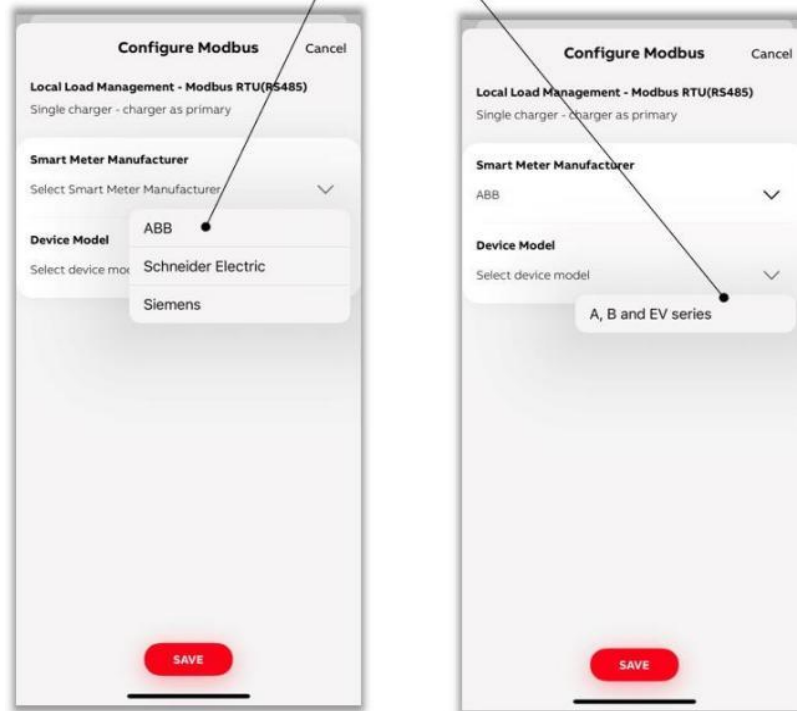


Load Management:
 Helyi Load Management kiválasztása
 Kiválasztása: RTU(RS485)

Ne állítsa be a felhasználó által beállítható maximális áramot.

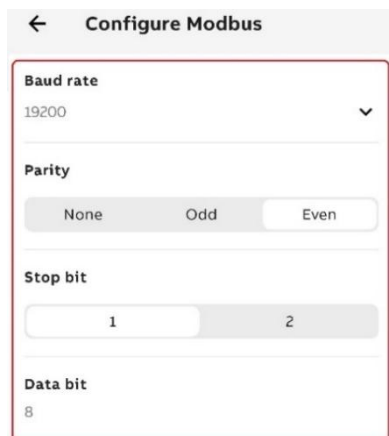
Példa az ABB
mérő kiválasztására

Example of
selecting ABB meter



Válassza az „**ABB**” lehetőséget a **SmartMeter Manufacturer** (SmartMeter gyártója) legördülő menüben.

Válassza az helyes modellekre elemet a **Device Model** (Eszköz modellje) legördülő menüben.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

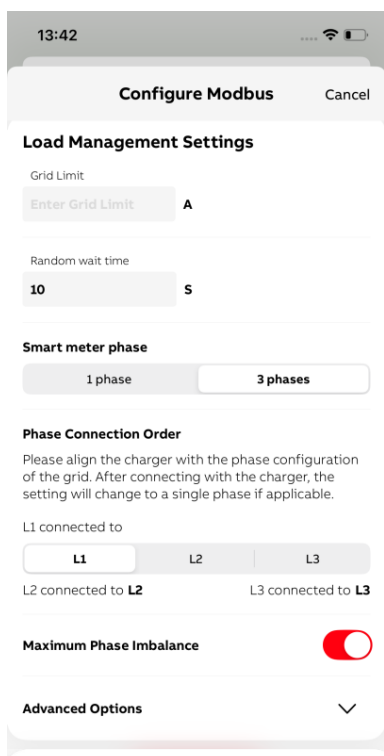
Állítsa a **Baud Rate** (Átviteli sebesség) értéket a következőre: **“9600”**

A **Parity** (Paritás) értéket állítsa a következőre: **„Even” (Páros)**

A **Stop bit** értékének 1-nek, a **Data bit** (Adatbit) értékének 8-nak kell lennie

MEGYJEGYZÉS

Az intelligens mérőnek és az EV-töltőnek azonos értékekkel kell rendelkeznie.



Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

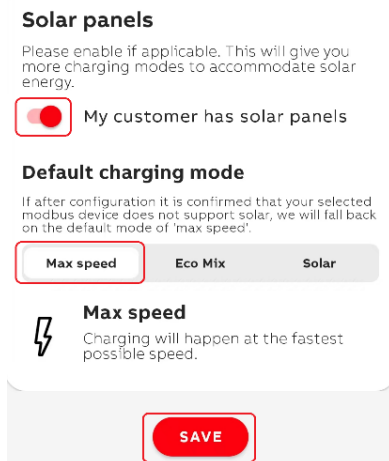
Maximum Phase Imbalance ☒

Advanced Options ☐

Hálózati korlátozás: a hálózati csatlakozás maximális határértéke (amperben), amelynél load management szükséges. Az érték beállítása előtt ellenőrizze a lakóépület főbiztosítékát. Ezt az értéket nem szabad a főbiztosíték értékénél magasChargedotra állítani!



Az „Intelligens mérő fázisa” és a „Fáziscsatlakozási sorrend” áttekintése, hogy összhangban legyenek a telepítési beállításokkal és a helyi szabályozással.



Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.
☒ My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

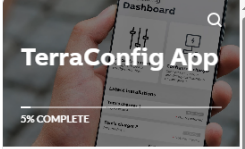
MEGYJEGYZÉS:

Ha nappanelek jelen van, csak a maximális sebességet válassza ki
Soha ne válassza az EcoMix vagy a Solar

Nyomja meg a **SAVE** (MENTÉS) gombot a beállítások eltárolásához.

Kérjük, fejezze be a konfiguráció megerősítésével annak érdekében, hogy a rendszer a konfigurációt az EV-töltőn tárolja.

A speciális beállításokhoz/utasításokhoz kövesse a [TerraConfig App – Áttekintés \(Chargedot.com\)](https://www.chargedot.com/TerraConfigApp-Attekintes) linket, és lépjen az Energiagazdálkodás részre, és tekintse meg a lapokat.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

עברית

מדריך התקנה מהיר זה מתאר בקצרה את שלבי ההתקנה וההגדרה החשובים ביותר לפונקציות ניהול העומס של עמדת הטעינה לרכב חשמלי. מדריך זה אינו תחליף למדריך ההתקנה של יצרן עמדת הטעינה ומונה החשמל, אלא משלים את המסמכים הללו. פרטים נוספים במדריך ההתקנה של עמדת הטעינה לרכב חשמלי ובמדריך ההתקנה של מונה החשמל. מדריך זה מיועד לשמש טכנאי חשמל מוסמכים (מתקינים) אשר אחראים להתקנת עמדת הטעינה ומונה החשמל לצורך פונקציית Load management.

לפני התקנת ה-Load management, קרא את המדריך הזה בעיון ובתשומת לב. פעל בהתאם להוראות שבמדריך זה. Chargedot אינה אחראית לכל נזק עקב אי ביצוע או ביצוע שגוי של ההוראות המתוארות במדריך זה.

כללי:

- **אזהרה** – חשמלאי מוסמך הוא היחיד שרשאי להתקין, לבצע פעולות שירות ותחזוקה ולגשת לציוד חשמלי.
- חובה לתכנן ולבנות את המתקן החשמלי בהתאם לחוקים המקומיים ולתקנות הבטיחות והחשמל.
- ודא שהמתג הראשי שבארון החשמל של המתקן (יחידת הצרכן) מכוון למצב כבוי, לפני תחילת עבודת ההתקנה. בצע בדיקת מתח כדי לוודא שלא מגיע חשמל ליחידה.



כתב ויתור

המידע במסמך זה כפוף לשינויים ללא הודעה מוקדמת ואין להתייחס אליו כהתחייבות של Chargedot. Chargedot אינה נושאת באחריות לכל שגיאה שעלולה להופיע במסמך זה.

בשום מקרה Chargedot לא תישא באחריות לנזקים ישירים, עקיפים, מיוחדים, נגררים או תוצאתיים מכל סוג הנובעים מהשימוש במדריך זה, וכן Chargedot לא תישא באחריות לנזק נגרר או תוצאתי הנובע משימוש בתוכנה או בחומרה המתוארות במסמך זה.

אזהרה – עבודה עם מתח גבוה כרוכה בסכנת מוות. אנשים המתחשמים ממתח גבוה חשופים לדום לב, פציעות בטן או פציעות קשות אחרות. כדי למנוע פציעות כאלה, הקפד לנתק את הספקת החשמל לפני תחילת ההתקנה.

אזהרה – מטעמי בטיחות מומלץ להתקין את הציוד באופן שלא מאפשר להגיע או לגעת בטעות בסרגל החיבורים. הדרך הטובה ביותר לבצע התקנה בטוחה היא להתקין את היחידה בתוך ארון סגור. בנוסף, יש להגביל את הגישה לציוד באמצעות שימוש במנעול ובמפתח הנתון בידי טכנאי חשמל מוסמך.

אזהרה – אין להפעיל את הציוד מחוץ למפרט הטכני שצוין.

דרישות ההתקנה – כדי לעמוד בדרישות ההגנה, יש להתקין את מונה החשמל בארון בעל דרגת הגנה IP 51, או גבוהה יותר, לפי IEC 60259.

זהירות – שמור שלא יחדור נוזל לתוך המונה ועמדת הטעינה מכיוון שעלול להיגרם נזק לציוד.

הסרת תוויות האיסוס מבטלת את האחריות והדיוק.

מדריך זה רלוונטי לדגמי עמדות הטעינה הבאים ומומלץ לשלב אותן עם דגמי מוני החשמל שלהלן:

מסען לרכב חשמלי			מונה אנרגיה		
מספר חלק של Chargedot	דגם	תלת-פאזי או חד-פאזי	מספר חלק של ABB	דגם	תלת-פאזי או חד-פאזי
6AGC082155	Terra AC W7-G5-R-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC082156	Terra AC W11-G5-R-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC082158	Terra AC W22-G5-R-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC105906	Terra AC W7-S-R-C-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC082154	Terra AC W22-S-R-C-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC082157	Terra AC W22-G5-R-C-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC081282	Terra AC W22-S-RD-MC-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118141	Terra AC W7-S-R	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118142	Terra AC-W11-S-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118143	Terra AC W22-S-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118144	Terra AC W7-G5-R	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118145	Terra AC W22-G5-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118146	Terra AC W7-S-R-C	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118147	Terra AC W22-S-R-C	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118148	Terra AC W22-S-RD-MC	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118149	Terra AC-W11-T-RD-PC	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118155	Terra AC W7-S-R	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118156	Terra AC-W11-S-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118157	Terra AC W22-S-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118158	Terra AC W7-G5-R	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118159	Terra AC W22-G5-R	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118160	Terra AC W7-S-R-C	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC118161	Terra AC W22-S-R-C	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118162	Terra AC W22-S-RD-MC	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC118163	Terra AC-W11-T-RD-PC	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128169	Terra AC W7-G5-R-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128178	Terra AC W7-G5-R-C-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128177	Terra AC W7-S-R-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128176	Terra AC W7-S-R-C-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128175	Terra AC W11-G5-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128174	Terra AC W11-S-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128173	Terra AC W22-G5-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128172	Terra AC W22-G5-R-C-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128171	Terra AC W22-S-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128170	Terra AC W22-S-R-C-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128861	Terra AC W7-S-RD-MC-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128859	Terra AC W22-S-RD-MC-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי

6AGC128195	Terra AC E7-S-R-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128196	Terra AC E7-S-R-C-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128197	Terra AC E7-G5-R-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128198	Terra AC E7-G5-R-C-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128199	Terra AC E11-S-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128200	Terra AC E11-G5-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128201	Terra AC E22-S-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128202	Terra AC E22-S-R-C-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128203	Terra AC E22-G5-R-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128204	Terra AC E22-G5-R-C-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128206	Terra AC E7-S-RD-MC-V2-0	חד-פאזי	2CMA100155R1000	B21 312-100	חד-פאזי
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי
6AGC128208	Terra AC E22-S-RD-MC-V2-0	תלת-פאזי	2CMA100166R1000	B23 212-100	תלת-פאזי

דגמי מונה חשמל

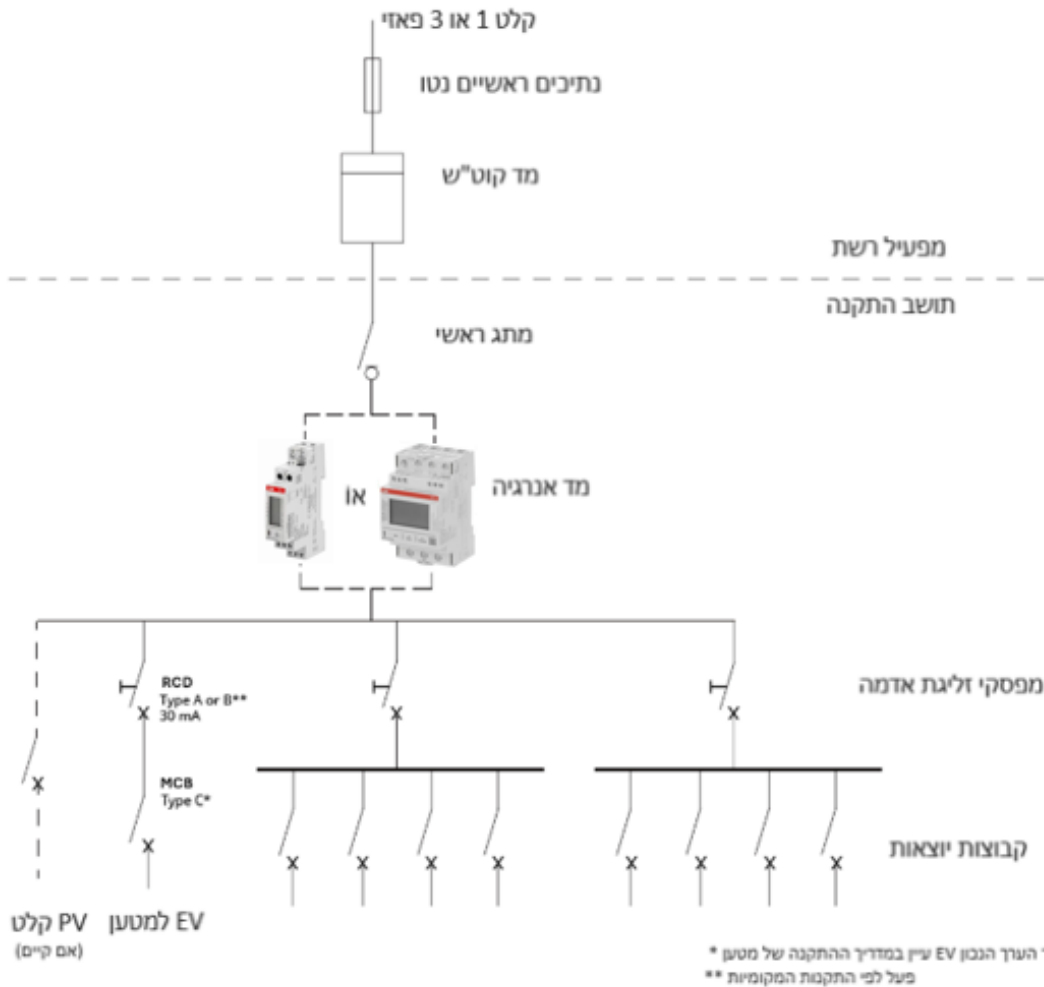
לעמדות טעינה לתלת-פאזיות
ABB מק"ט : 2CMA241665R1000
Model: D11 15-M 40 Modbus
[D11 15-M 40 Modbus | ABB](#)



לעמדות טעינה חד-פאזיות
ABB מק"ט : 2CMA241765R1000
Model: D13 15-M 65 Modbus
[D13 15-M 65 Modbus | ABB](#)



להתקנה מכנית וחשמלית של מונה החשמל, השתמש בהוראות ההתקנה המצורפות (נמצאות באריזה של מונה החשמל) או הורד מדריכים של מונה החשמל הרלוונטי בקישור [הורדת מסמכים זמינים לעיל](#).

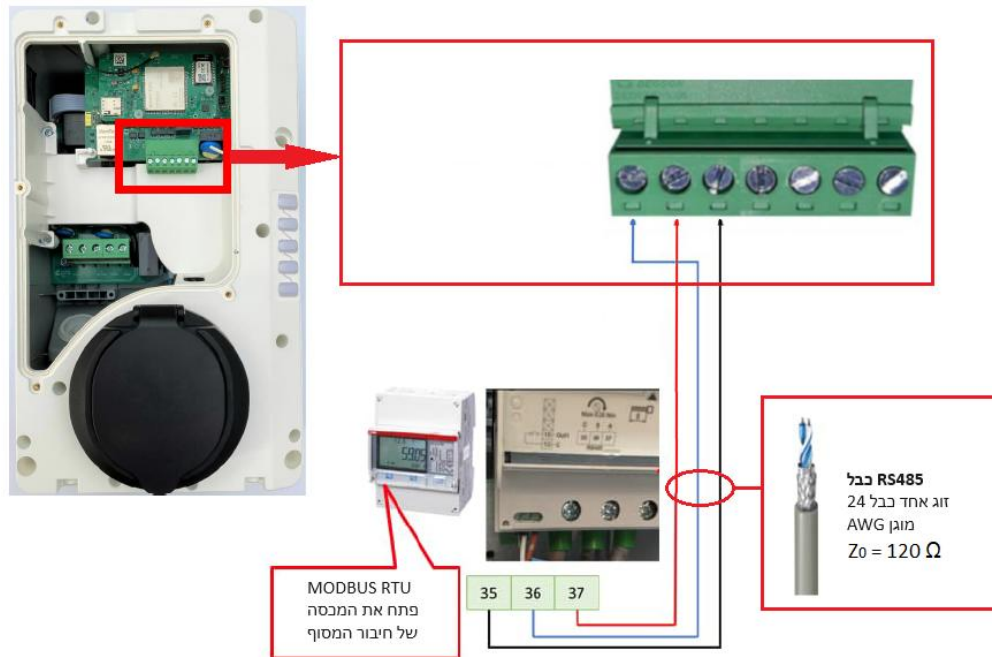


המפסק הראשי מיועד רק לניתוק בטיחותי במהלך ההתקנה. ניתן למקם את מונה האנרגיה בכל מקום שמודד את הצריכה הכוללת של הבית - אם מפסק ההארקה שלך יכול לנתק את החשמל, הוא מתפקד גם כמפסק ראשי.

התקן את מונה החשמל אחרי המפסק הראשי ולפני ארון החשמל עם מפסקי פחת ומפסקים אוטומטיים. האיור שלמעלה הוא דוגמה לארון חשמל טיפוסי בבית מגורים (יחידת הצרכן).

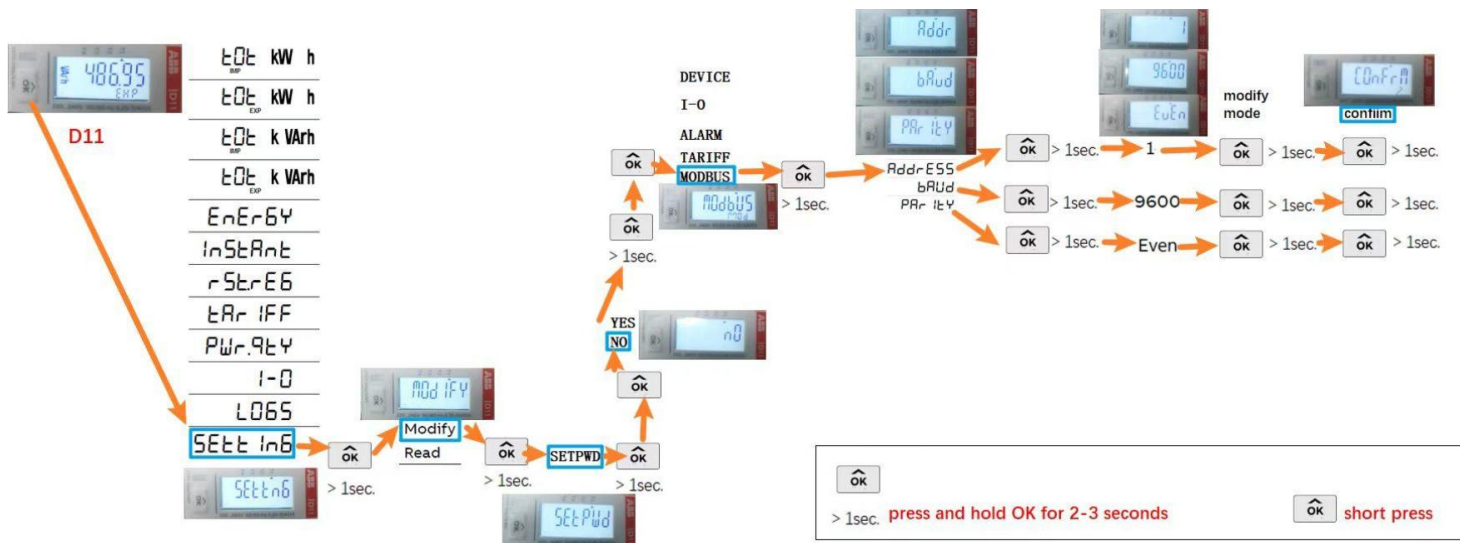
אזהרה - חובה להגן על מונה החשמל באמצעות נתיכים בצד הכניסה. למידע נוסף עיין במדריכי ההתקנה של מונה החשמל.

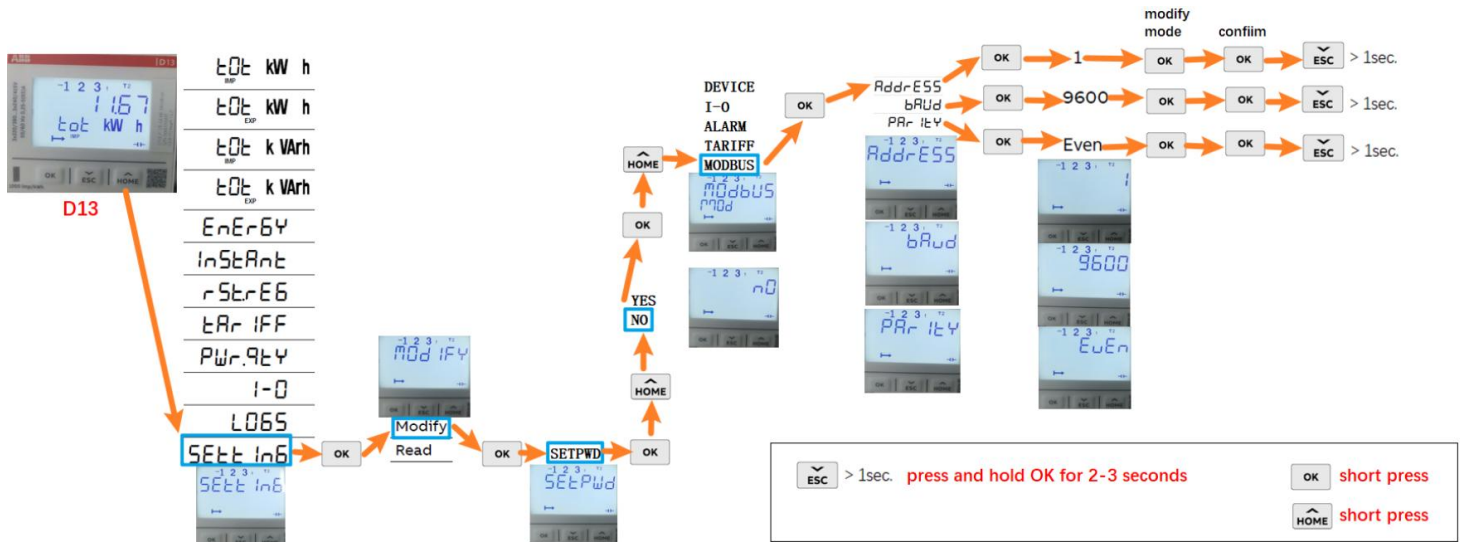




תצורת מונה החשמל – אין צורך בשינוי

באיור שלהלן מוצגות הגדרות ברירת המחדל של היצרן של מונה החשמל. אלו הן ההגדרות המדויקות לניהול עומסים ואין לשנותן.

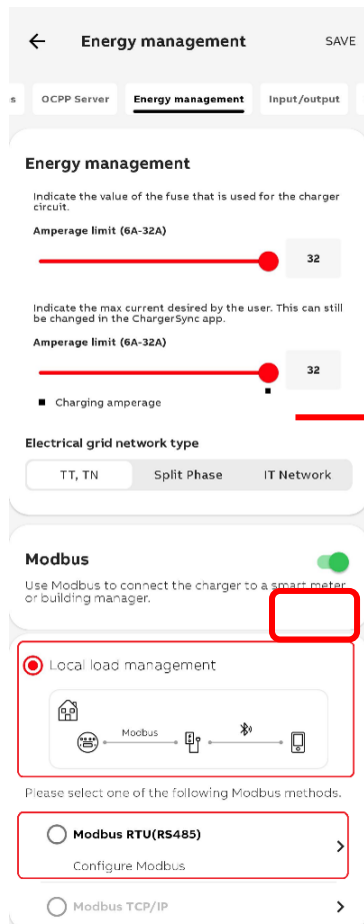




אפליקציית ההעברה לשימוש תפעולי של TerraConfig – לניהול עומסים

להגדרות כלליות של טעינת רכב חשמלי, עיין במדריך מקוון – קישור לאתר Chargedot.com – סקירה כללית (TerraConfig אפליקציית TerraConfig – סקירה כללית)

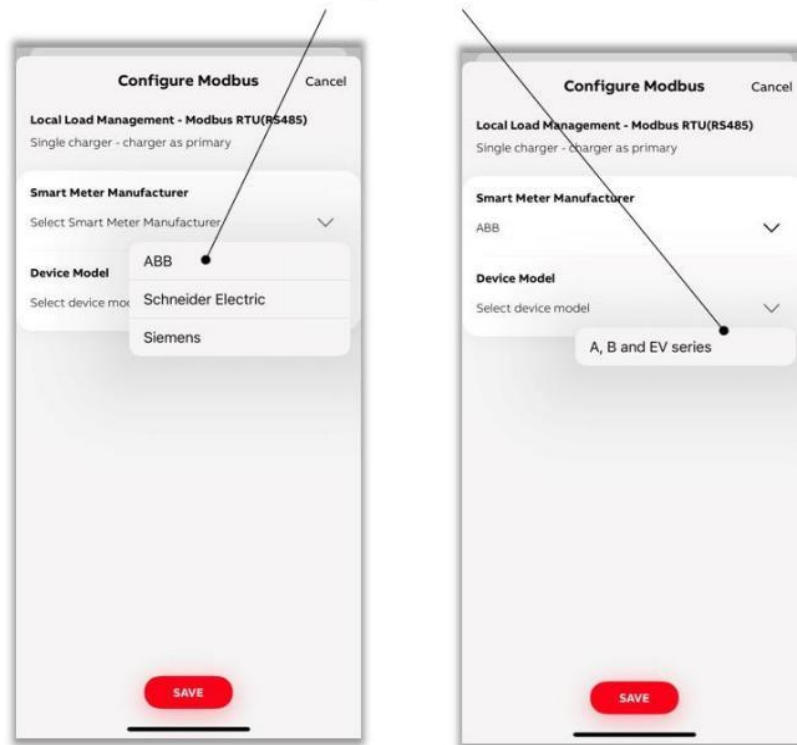
:Load Management
Local Load Management חר
בחר: RTU(RS485)



המשתמש ידע על ההגדרה הניתנת המרבית הזרם את תגדיר אל

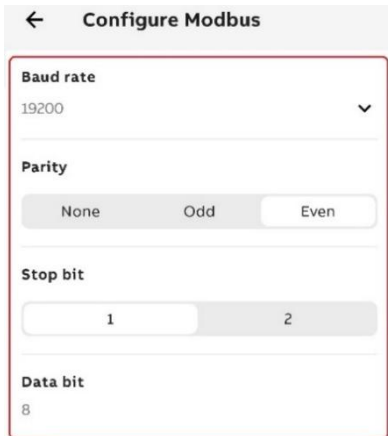
ABB דוגמה לבחירת מד

Example of selecting ABB meter



בחר 'ABB' בתפריט הנפתח **SmartMeter Manufacturer** (יצרן המונה החכם).

בחר דגמים נכונים בתפריט הנפתח **Device Model**.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

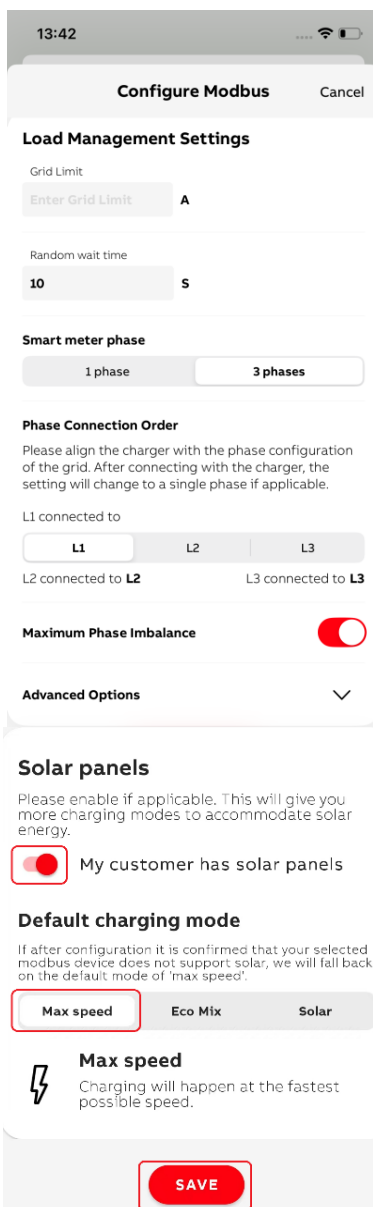
הגדר **Baud Rate** (קצב שידור) ל-'9600'

הגדר **Parity** (זוגיות) ל-'Even' (אי זוגי)

Stop bit (סיבית עצירה) חייבת להיות 1 ו-**Data bit** (סיביות נתונים) חייבת להיות 8.

הערה

הערכים החשמליים של המונה החכם ושל עמדת הטעינה צריכים להיות זהים.



Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

Maximum Phase Imbalance

Advanced Options

Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

Grid limit (הגבלת רשת): הגבלה מקסימלית (באמפר) של חיבור הרשת שעבורו יש לבצע איזון עומסים. לפני קביעת ערך זה, בדוק את הנתיד הראשי של בניין המגורים. ערך זה לא יעלה על ערך הנתיד הראשי!

' (פאזה המונה החכם) Smart meter phase כדי לבדוק אם ' (סדר חיבור הפאזות) מתאימות להגדרות Phase connection order ו-' ההתקנה ולתקנות המקומיות.

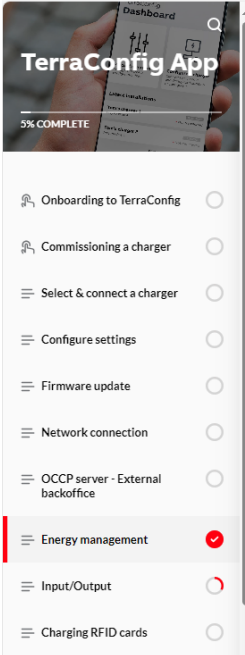


Solar או EcoMix הערה: לעולם אל תבחר
אם פנלי סולארית נוכחים, בחר רק מהירות מקסימת

לחץ על הלחצן **SAVE** (שמירה) כדי לשמור את ההגדרות בזיכרון.

סיים באישור התצורה כדי לשמור את התצורה בעמדת הטעינה.

[Chargedot.com - סקירה כללית \(TerraConfig\)](https://Chargedot.com/TerraConfig) להגדרות מתקדמות / הדרכה היכנס לקישור [אפליקציית](#) / ועבור לניהול אנרגיה / ופעל לפי הכרטיסיות.



ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
Maximum delta (in Ampere) between two separate phases that is to be pursued Limit after which charger will react by decreasing the power output by a significant amount Limit after which charger will react by decreasing the power output by a small amount Limit after which charger will react by increasing the power output by a small amount Charger output limit when there is no network Connection/meter connection lost 			

Load management

Íslenska

Þessi stytta uppsetningarhandbók (QIG) lýsir í stuttu máli helstu uppsetningar- og stillingarskrefum fyrir load management (álagsstýringu) EV-hleðslutækisins. Þessar stytta leiðbeiningar koma ekki í stað uppsetningarhandbókar framleiðanda EV-hleðslutækisins og orkumælisins. Hún er til viðbótar við þessi skjöl. Nánari upplýsingar er að finna í uppsetningarhandbók EV-hleðslutækis og uppsetningarhandbók orkumælis. Þessar stytta leiðbeiningar eru ætlaðar viðurkenndum rafvirkjum (uppsetningaraðilum) sem bera ábyrgð á uppsetningu EV-hleðslutækisins og orkumælisins virkni load management (álagsstýringar).

Áður en virkni load management (álagsstýringar) er sett upp skaltu lesa þessar stytta leiðbeiningarnar vandlega og af athygli. Fylgdu stytta leiðbeiningunum. Chargedot er ekki ábyrgt fyrir tjóni sem hefur orðið af því að fylgja ekki eða fara ranglega eftir og útfæra ekki þessar stytta leiðbeiningar.

Almennt:

- **Viðvörðun** - Aðeins viðurkenndir rafiðnaðarmenn ættu að setja upp, koma að, þjónusta og viðhalda rafbúnaði.
- Rafmagnsuppsetningar ætti að hanna og smíða í samræmi við gildandi lög, öryggis- og rafmagnsreglugerðir.
- Gakktu úr skugga um að aðalrofi dreifiskápsins (neytendaeining) sé stilltur á OFF stöðu, áður en uppsetningin hefst. Kannaðu spennu til að ganga úr skugga um að lokað sé fyrir rafmagnið.



Fyrirvari

Upplýsingarnar í þessu skjali geta breyst án fyrirvara og ætti ekki að túlka þær sem skuldbindingar af hálfu Chargedot. Chargedot tekur enga ábyrgð á villum sem kunna að koma fram í þessu skjali.

Chargedot skal í engu tilviki vera ábyrgt fyrir beinu, óbeinu, sérstöku, tilfallandi eða afleiddu tjóni af neinu tagi eða tegund sem stafar af notkun þessa skjals, né er Chargedot ábyrgt fyrir tilfallandi eða afleiddu tjóni. sem stafar af notkun hvers kyns hugbúnaðar eða vélbúnaðar sem lýst er í þessu skjali.

⚠ Viðvörðun - Vinna við háspennu getur reynst banvæn. Einstaklingar sem verða fyrir háspennu geta fengið hjartastopp, brunaáverka eða aðra alvarlega áverka. Gakktu úr skugga um að rafmagn sé aftengt áður en uppsetning hefst til að forðast slíka áverka.

⚠ Viðvörðun – Af öryggisástæðum er mælt með því að búnaðurinn sé settur upp þannig að ómögulegt sé að komast í eða snerta tengibrettinn fyrir slysi.

Öruggasta uppsetningin er að setja upp eininguna í aflokuðu rými. Ennfremur ætti að takmarka aðgang að búnaðinum með því að nota læsingu og lykla í umsjá viðurkenndra rafvirkja.

⚠ Viðvörðun – Ekki nota búnaðinn utan þess sem tæknilegar upplýsingar segja.

Uppsetningarkröfur – Til að uppfylla verndarkröfurnar verður að setja orkumælinn upp í umlykju í verndarflokki IP 51 eða ofar samkvæmt IEC 60259.

Varúð – Gætið þess að enginn vökvi komist inn í mælinn og EV-hleðslutækið þar eð hann getur skemmt búnaðinn.

Ábyrgð og nákvæmni falla úr gildi ef innsigli eru fjarlægð.

Þessi handbók á við um eftirfarandi gerðir EV-hleðslutækis og mælt er með að hún sé sameinuð tilgreindum gerðum orkumæla:

EV-hleðslutæki			Orkumælir		
Chargedot hlutanúmer	Tegund	Þrífasa eða einfasa	ABB hlutanúmer	Tegund	Þrífasa eða einfasa
6AGC082155	Terra AC W7-G5-R-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC082156	Terra AC W11-G5-R-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC082158	Terra AC W22-G5-R-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC105906	Terra AC W7-S-R-C-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC082154	Terra AC W22-S-R-C-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC082157	Terra AC W22-G5-R-C-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC081282	Terra AC W22-S-RD-MC-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118141	Terra AC W7-S-R	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118142	Terra AC-W11-S-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118143	Terra AC W22-S-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118144	Terra AC W7-G5-R	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118145	Terra AC W22-G5-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118146	Terra AC W7-S-R-C	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118147	Terra AC W22-S-R-C	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118148	Terra AC W22-S-RD-MC	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118149	Terra AC-W11-T-RD-PC	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118155	Terra AC W7-S-R	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118156	Terra AC-W11-S-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118157	Terra AC W22-S-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118158	Terra AC W7-G5-R	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118159	Terra AC W22-G5-R	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118160	Terra AC W7-S-R-C	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC118161	Terra AC W22-S-R-C	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118162	Terra AC W22-S-RD-MC	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC118163	Terra AC-W11-T-RD-PC	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128169	Terra AC W7-G5-R-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128178	Terra AC W7-G5-R-C-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128177	Terra AC W7-S-R-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128176	Terra AC W7-S-R-C-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128175	Terra AC W11-G5-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128174	Terra AC W11-S-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128173	Terra AC W22-G5-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128172	Terra AC W22-G5-R-C-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128171	Terra AC W22-S-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128170	Terra AC W22-S-R-C-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128195	Terra AC E7-S-R-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128196	Terra AC E7-S-R-C-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128197	Terra AC E7-G5-R-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128198	Terra AC E7-G5-R-C-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128199	Terra AC E11-S-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128200	Terra AC E11-G5-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128201	Terra AC E22-S-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128202	Terra AC E22-S-R-C-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128203	Terra AC E22-G5-R-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128204	Terra AC E22-G5-R-C-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Einfasa	2CMA100155R1000	B21 312-100	Einfasa
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Þrífasa	2CMA100166R1000	B23 212-100	Þrífasa

Orkumælisgerðir

Fyrir 1 fasa EV-hleðslutæki

ABB hlutanúmer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



fyrir 3 fasa EV-hleðslutæki

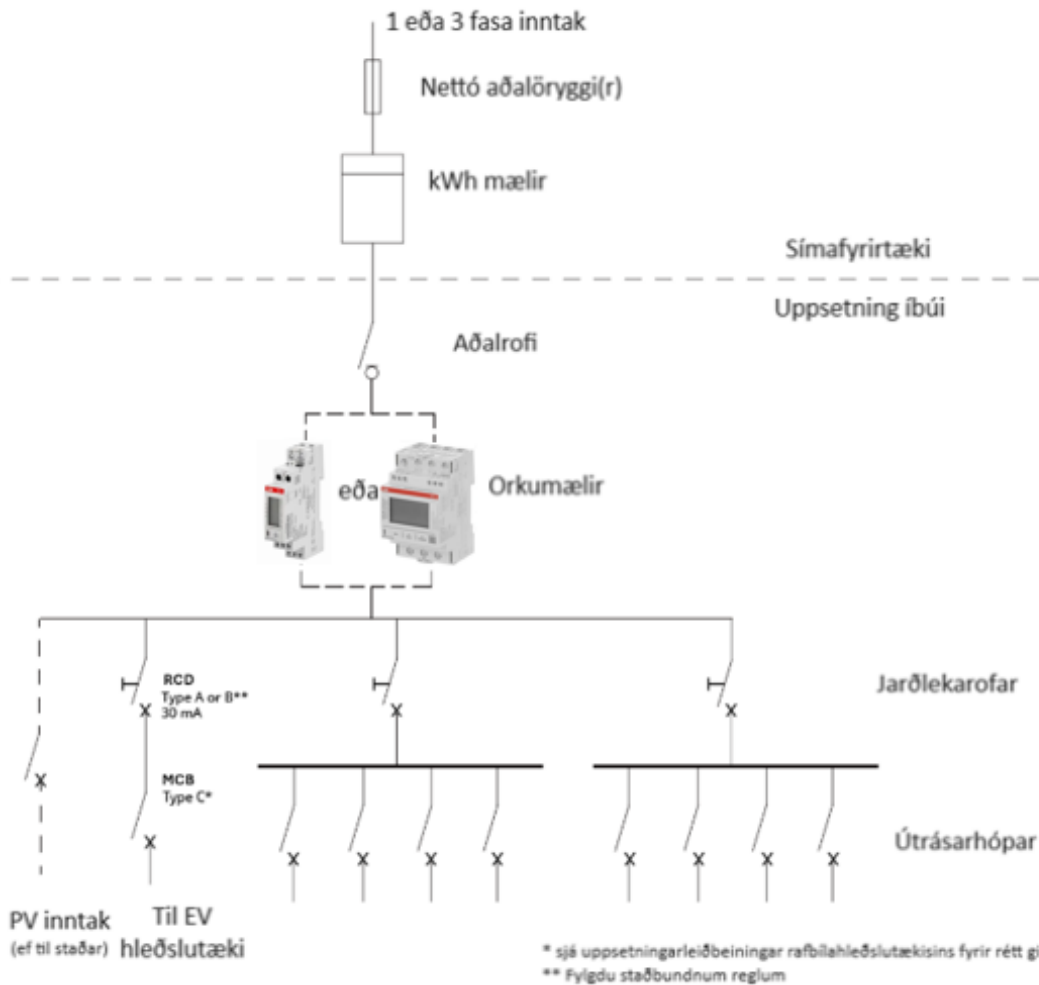
ABB hlutanúmer: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Við vélræna og rafmagnsuppsetningu á orkumælinum skal nota meðfylgjandi uppsetningarleiðbeiningar (er að finna í umbúðum orkumælisins) eða halaðu niður handbókum um orkumælinn, sem notaður er, með hlekknum *Sækja tiltæk skjöl* hér að ofan.

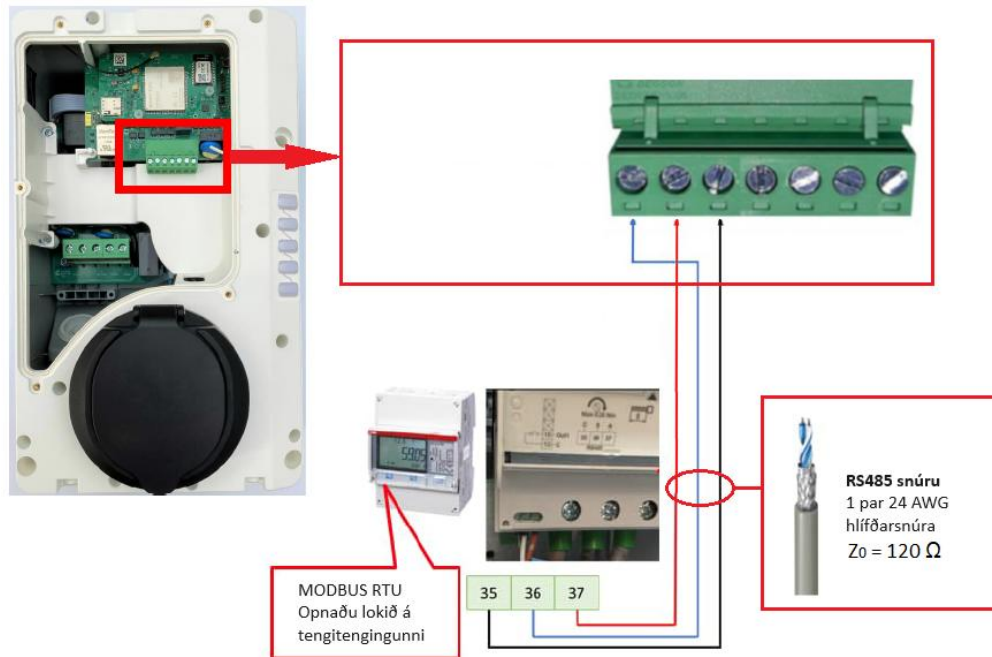


Aðalrofi er eingöngu til öryggisrofs við uppsetningu. Orkumælirinn má setja hvar sem er sem mælir heildarnotkun heimilisins – ef jarðlekarofið þitt getur slökkt á rafmagninu, virkar það einnig sem aðalrofi.

Settu upp orkumæli eftir aðalrofa og fyrir dreifiskáp með jarðlekarofum og aflrofum. Myndin hér að ofan er dæmi um dreifingarskáp fyrir íbúðarhúsnæði (neytendaeining).

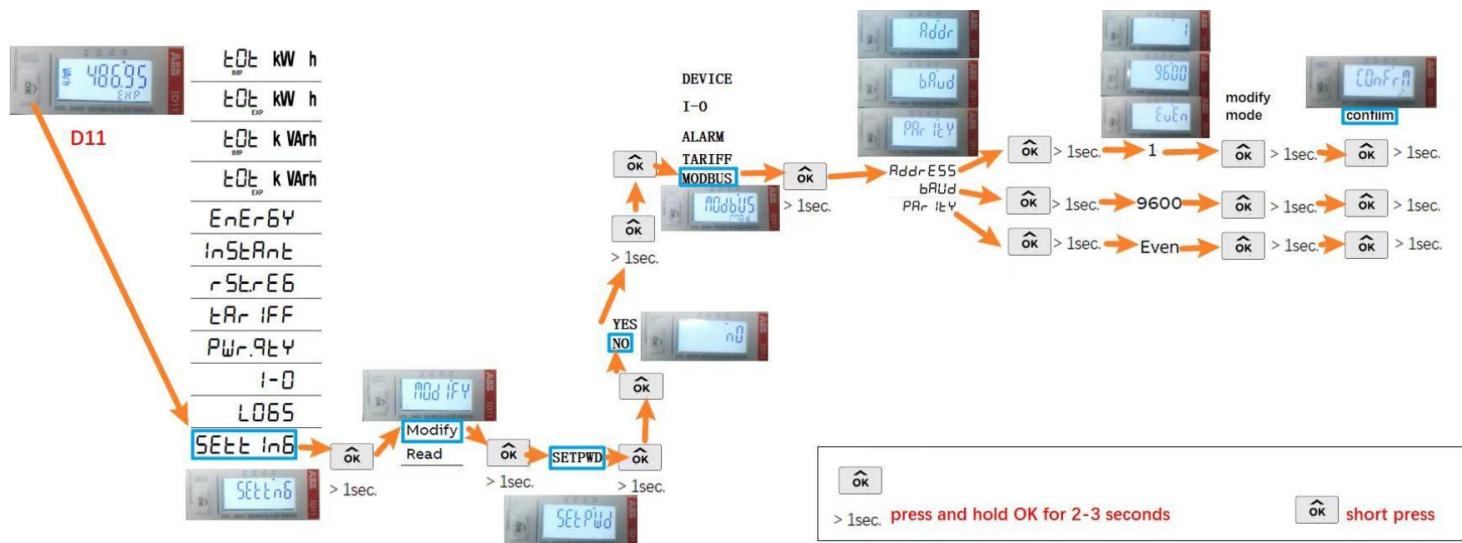


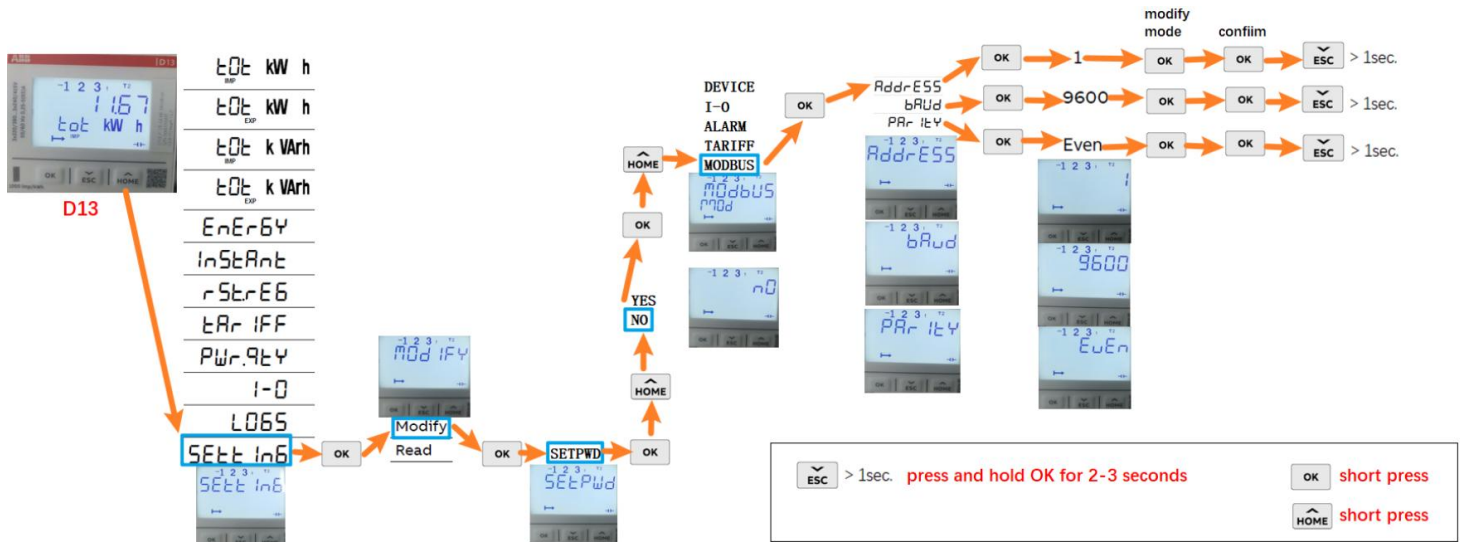
Viðvörðun - Orkumælinn þarf ávallt að verja með öryggi á innkomuhliðinni. Sjá nánar uppsetningarhandbækur um orkumælinn.



Stilling orkumælis - engin þörf á að breyta

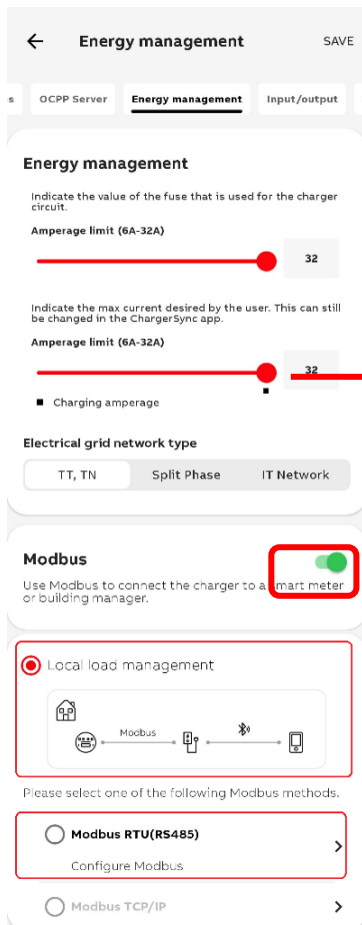
Myndin hér að neðan sýnir sjálfgefnar verksmiðjustillingar orkumælisins. Þetta eru réttar stillingar fyrir load management (álagsstýringu) og ætti ekki að breyta þeim.





TerraConfig gangsetningarforrit – fyrir load management (álagsstýringu)

Varðandi almennar stillingar EV-hleðslutækis skaltu skoða kennsluefni á netinu – sjá tengil á vefsíðuna [TerraConfig app - Yfirlit \(Chargedot.com\)](https://www.chargedot.com)

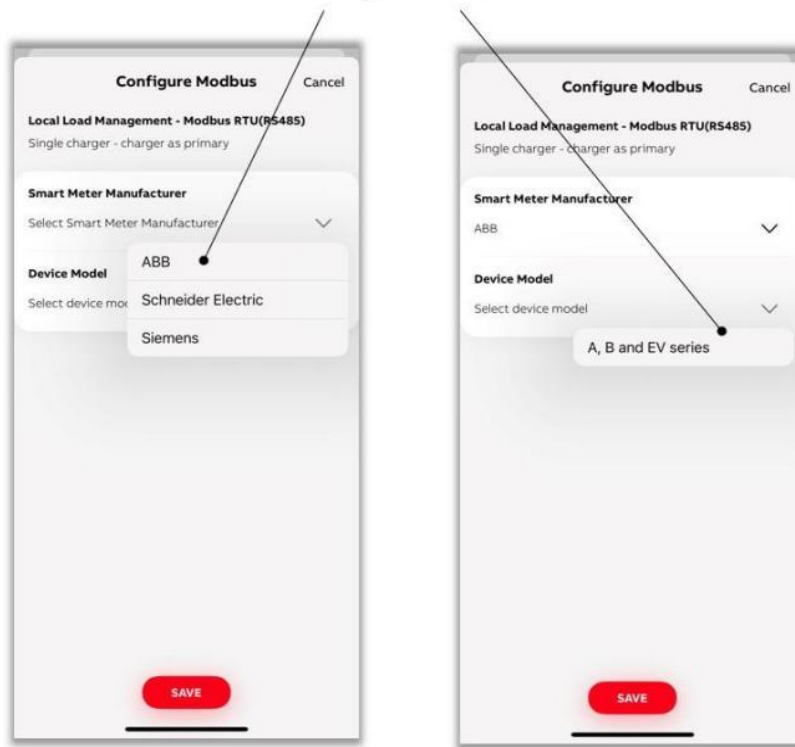


Load management (álagsstýring):
Veldu load management (álagsstýringar) val
Veldu: RTU(RS485)

Ekki stilla notandastillanlegan hámarksstraum

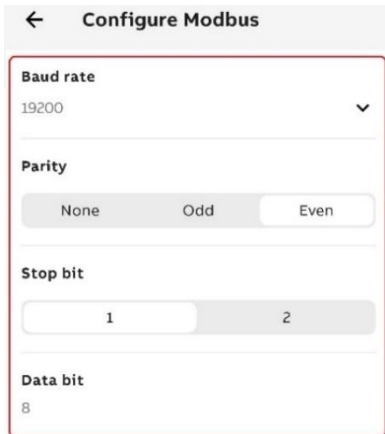
Dæmi um val á ABB mæli

Example of selecting ABB meter



Veldu '**ABB**' í fellivalmyndinni **SmartMeter framleiðandi**.

Veldu réttar gerðir úr fellivalmyndinni **Gerð tækis**.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

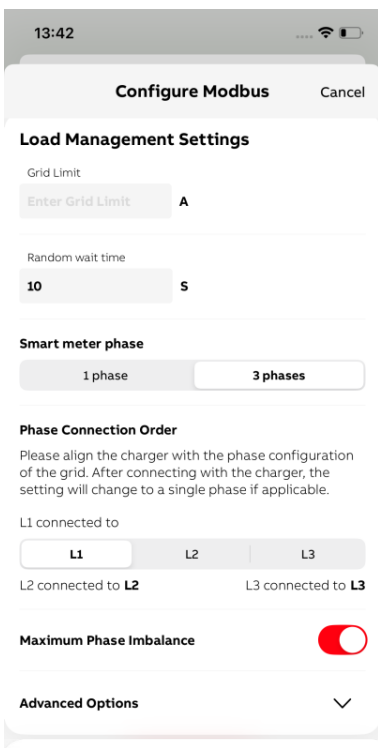
Stilltu **Baud hlutfall** á '9600'

Stilltu **Jafnræði** á 'Jafnt'

Stöðvunarbiti verður að vera 1 og **Gagnabiti** verður að vera 8

ATH.

Snjallmælir og EV-hleðslutæki ættu að vera með sömu gildi.



13:42

Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

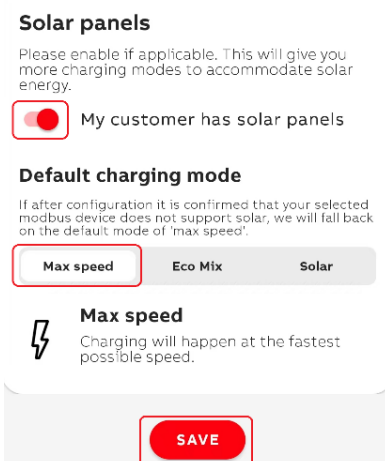
Maximum Phase Imbalance

Advanced Options

Rafveitumörk: hámark (í amperum) rafveitu sem á að álagsjafna. Áður en þú stillir þetta gildi skaltu athuga aðalöryggi íbúðar. Þetta gildi ætti ekki að vera hærra en aðalöryggi leyfir!



Til að endurskoða 'Snjallmælisfasa' og 'Fasatengiröð' til samræmis við uppsetningu búnaðar og gildandi reglur.



Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

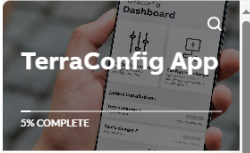
ATHUGIÐ:

Ef sólplýtur er til staðar, veldu aðeins hámarksraði
Veldu aldrei EcoMix eða Solar

Skaltu ýta á **VISTA** hnappinn til að vista stillingarnar.

Vinsamlega endið með að staðfesta stillingar til að vista stillingarnar á EV-hleðslutækinu.

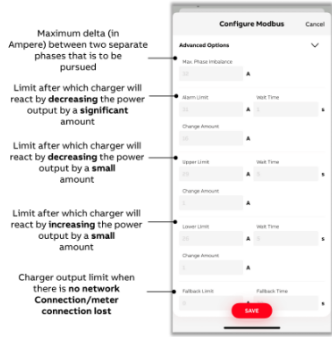
Varðandi háþróaðar stillingar/leiðbeiningar skaltu fara í hlekkinn [TerraConfig app - Yfirlit \(Chargedot.com\)](https://www.chargedot.com/TerraConfig_app) og fara í orkustjórnun / og fylgja flipunum.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Italiano

Questa Guida di installazione rapida (GIR) descrive brevemente le fasi principali dell'installazione e della configurazione della funzionalità di Load management del caricabatterie per VE. Questa GIR non sostituisce il manuale di installazione del produttore del caricabatterie per VE e del contatore di energia, ma è complementare a questi documenti. Informazioni più dettagliate sono disponibili nel manuale di installazione del caricabatterie per VE e nel manuale di installazione del contatore di energia. Questa GIR è destinata all'uso da parte di elettricisti qualificati (installatori) responsabili dell'installazione del caricabatterie per veicoli elettrici e del contatore di energia finalizzata alla funzionalità di Load management.

Prima di configurare la funzionalità di Load management, leggere attentamente e scrupolosamente questa GIR. Seguire le istruzioni contenute in questa GIR. Chargedot non è responsabile per eventuali danni causati dalla mancata o errata esecuzione delle istruzioni descritte in questa GIR.

Informazioni generali:

Avvertenza - L'installazione, l'accesso, la manutenzione e la riparazione delle apparecchiature elettriche devono essere eseguiti esclusivamente da elettricisti qualificati.



L'impianto elettrico deve essere progettato e realizzato in conformità alle leggi locali e alle normative sull'elettricità e la sicurezza.

Prima di iniziare i lavori di installazione, assicurarsi che l'interruttore principale dell'armadio di distribuzione (quadro) sia ruotato in posizione OFF. Effettuare un controllo della tensione per assicurarsi che l'alimentazione elettrica sia disattivata.

Esclusione di responsabilità

Le informazioni contenute in questo documento sono soggette a modifiche senza preavviso e non devono essere interpretate come un impegno da parte di Chargedot. Chargedot non si assume alcuna responsabilità per eventuali errori che potrebbero apparire in questo documento.

In nessun caso Chargedot sarà tenuta a rispondere degli eventuali danni speciali, incidentali, consequenziali o indiretti di qualsiasi natura o tipo derivanti dall'utilizzo del presente documento, né Chargedot sarà responsabile per danni incidentali o consequenziali derivanti dall'utilizzo di qualsiasi software o hardware descritto nel presente documento.

⚠ Avvertenza - Lavorare con l'alta tensione può causare lesioni potenzialmente letali. Le persone sottoposte ad alta tensione potrebbero subire arresto cardiaco, ustioni o altre lesioni gravi. Per evitare tali lesioni, assicurarsi di scollegare l'alimentazione prima di iniziare l'installazione.

⚠ Avvertenza - Per motivi di sicurezza si consiglia di installare l'apparecchiatura in modo da impedire all'operatore di raggiungere o toccare accidentalmente i blocchi terminali.

Il modo migliore per effettuare un'installazione sicura è installare l'unità in un involucro. Inoltre, l'accesso all'apparecchiatura deve essere limitato mediante chiusura a chiave e controllato da elettricisti qualificati.

⚠ Avvertenza - Non utilizzare dispositivi difformi ai dati tecnici specificati!

Requisiti di installazione - Per soddisfare i requisiti di protezione il contatore di energia deve essere montato in un involucro con classe di protezione IP 51 o migliore secondo IEC 60259.

Attenzione - Assicurarsi che nessun liquido penetri nel contatore e nel caricabatterie per VE poiché potrebbe danneggiare l'apparecchiatura.

La garanzia e l'accuratezza si annullano se i sigilli vengono rimossi.

Questo manuale è applicabile ai seguenti modelli di caricabatterie per VE e se ne consiglia l'utilizzo in combinazione con i seguenti modelli di contatore di energia:

Caricabatterie per VE			Contatore di energia		
Numero parte Chargedot	Modello	Trifase o monofase	Numero parte ABB	Modello	Trifase o monofase
6AGC082155	Terra AC W7-G5-R-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC082156	Terra AC W11-G5-R-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC082158	Terra AC W22-G5-R-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC105906	Terra AC W7-S-R-C-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC082154	Terra AC W22-S-R-C-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC082157	Terra AC W22-G5-R-C-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC081282	Terra AC W22-S-RD-MC-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118141	Terra AC W7-S-R	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118142	Terra AC-W11-S-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118143	Terra AC W22-S-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118144	Terra AC W7-G5-R	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118145	Terra AC W22-G5-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118146	Terra AC W7-S-R-C	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118147	Terra AC W22-S-R-C	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118148	Terra AC W22-S-RD-MC	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118149	Terra AC-W11-T-RD-PC	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118155	Terra AC W7-S-R	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118156	Terra AC-W11-S-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118157	Terra AC W22-S-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118158	Terra AC W7-G5-R	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118159	Terra AC W22-G5-R	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118160	Terra AC W7-S-R-C	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC118161	Terra AC W22-S-R-C	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118162	Terra AC W22-S-RD-MC	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC118163	Terra AC-W11-T-RD-PC	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128169	Terra AC W7-G5-R-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128178	Terra AC W7-G5-R-C-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128177	Terra AC W7-S-R-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128176	Terra AC W7-S-R-C-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128175	Terra AC W11-G5-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128174	Terra AC W11-S-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128173	Terra AC W22-G5-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128171	Terra AC W22-S-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128195	Terra AC E7-S-R-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128196	Terra AC E7-S-R-C-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128197	Terra AC E7-G5-R-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128198	Terra AC E7-G5-R-C-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128199	Terra AC E11-S-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128200	Terra AC E11-G5-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128201	Terra AC E22-S-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128203	Terra AC E22-G5-R-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Monofase	2CMA100155R1000	B21 312-100	Monofase
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifase	2CMA100166R1000	B23 212-100	Trifase

Modelli di contatore di energia

Per caricabatterie per VE monofase.

Codice ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Per caricabatterie per VE trifase

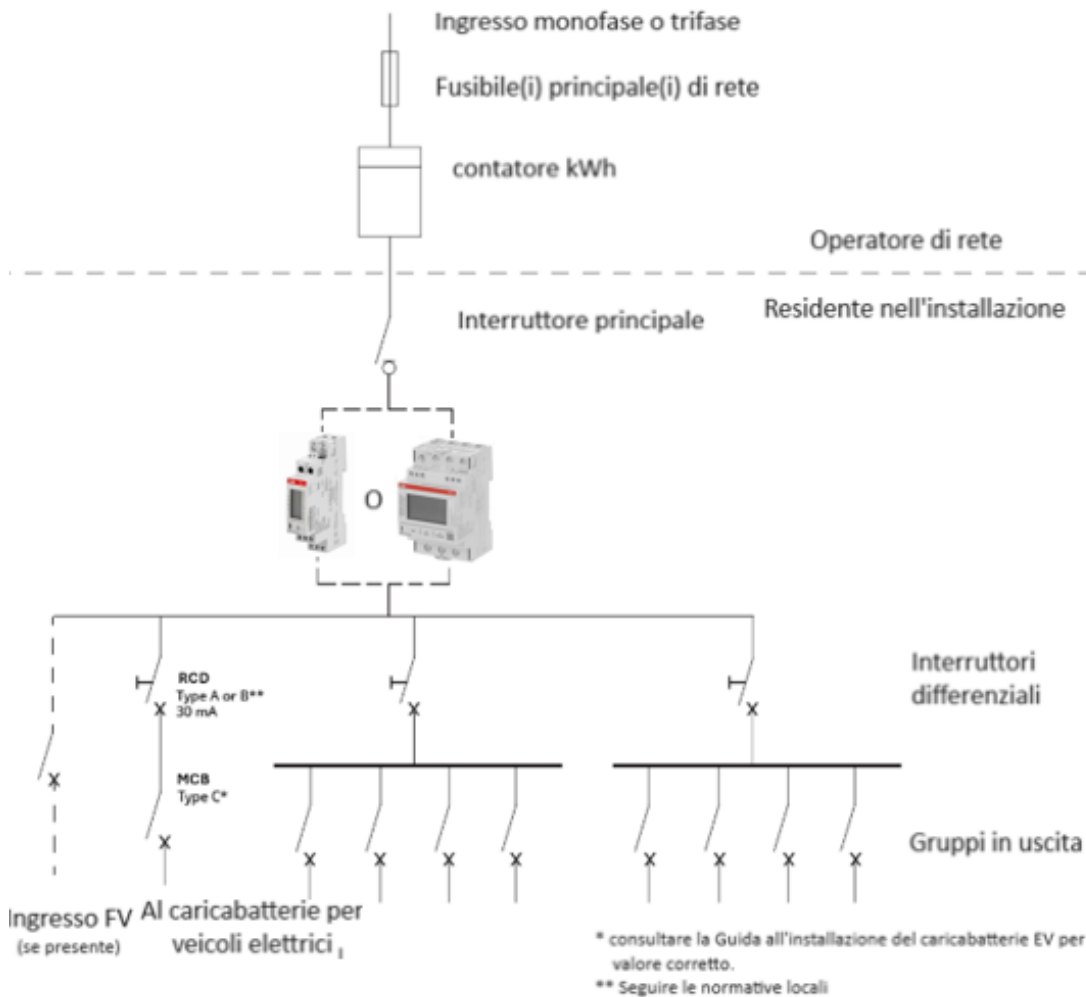
Codice ABB: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



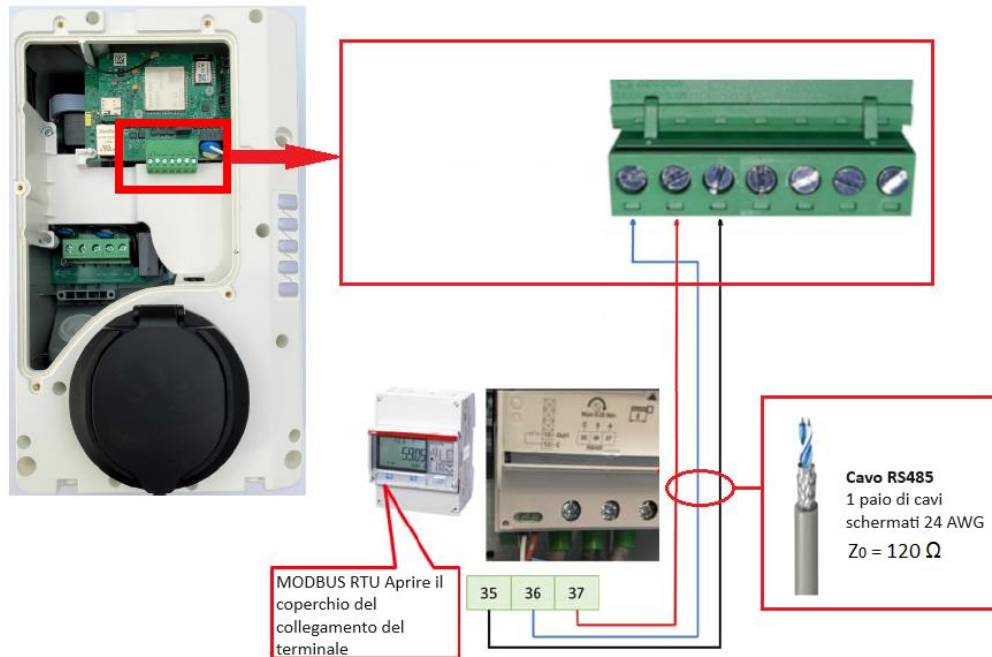
Per l'installazione meccanica ed elettrica del contatore di energia, fare riferimento alle istruzioni di installazione incluse (disponibili nella confezione del contatore di energia) o scaricare i manuali del contatore di energia utilizzando tramite il link *Scarica i documenti disponibili* indicato sopra.



L'interruttore principale serve solo per il sezionamento di sicurezza durante l'installazione. Il contatore di energia può essere posizionato ovunque misuri il consumo totale della casa – se il tuo interruttore differenziale può spegnere l'alimentazione, funge anche da interruttore principale.

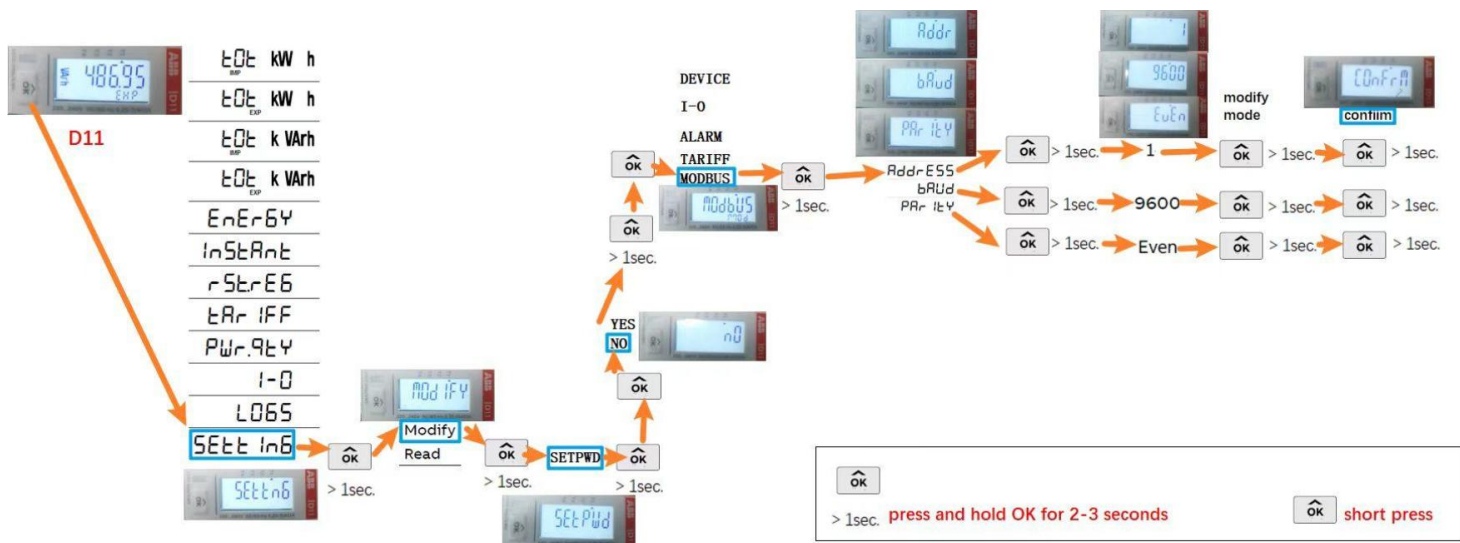
Installare il contatore di energia a valle dell'interruttore principale e a monte dell'armadio di distribuzione con interruttori differenziali e interruttori automatici. La figura sopra è un esempio di un tipico armadio di distribuzione per uso residenziale (quadro).

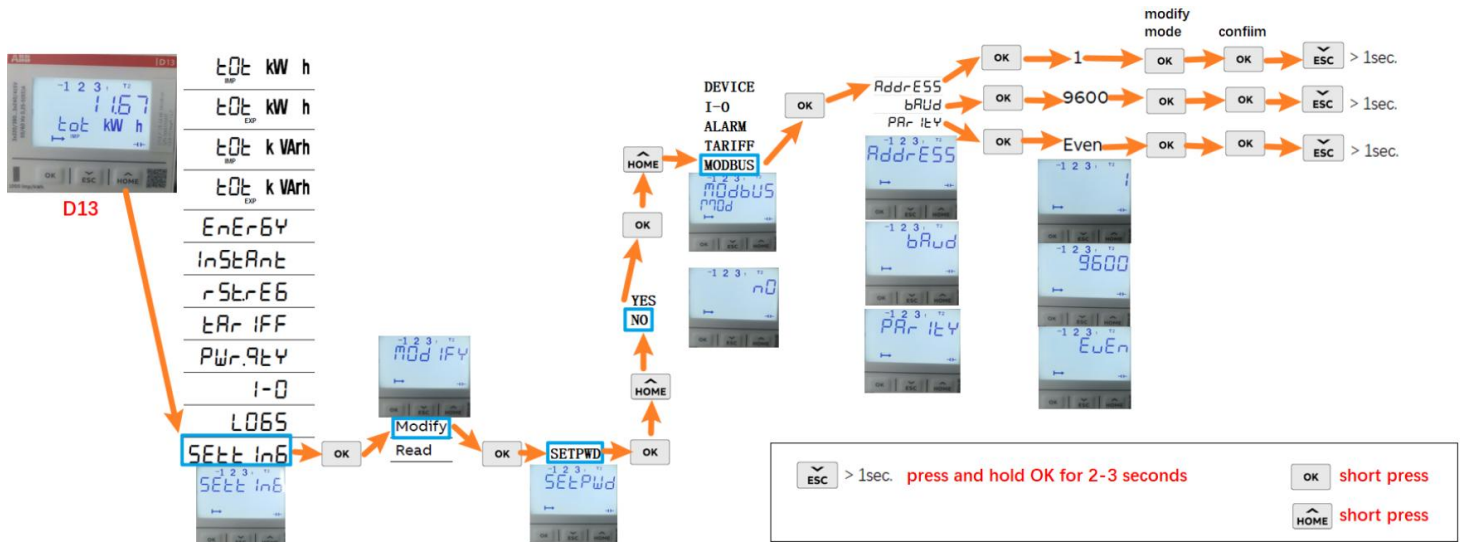
⚠ Avvertenza - Il contatore di energia deve essere sempre protetto sul lato ingresso mediante fusibili. Per maggiori informazioni consultare i manuali di installazione del contatore di energia.



Configurazione del contatore di energia - nessuna modifica necessaria

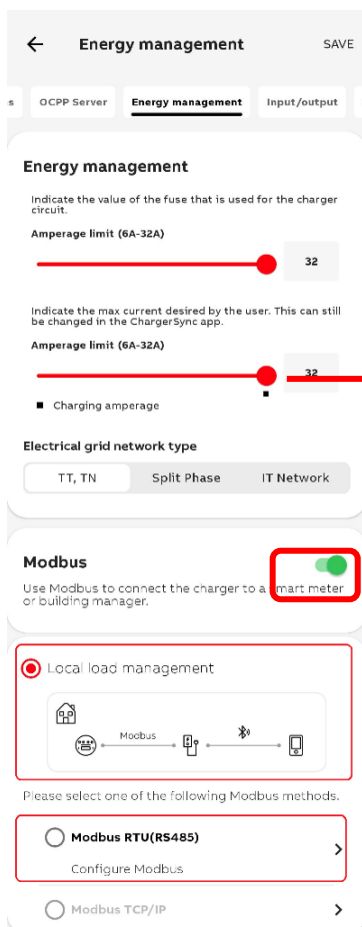
La figura seguente mostra le impostazioni di fChargedotrica predefinite del contatore di energia. Queste sono le impostazioni corrette per la Load management e non devono essere modificate.





App di messa in servizio TerraConfig – per la Load management

Per le impostazioni generali di ricarica dei veicoli elettrici, guardare il tutorial online – link al sito web [AppTerraConfig - Panoramica\(Chargedot.com\)](http://AppTerraConfig-Panoramica(Chargedot.com))

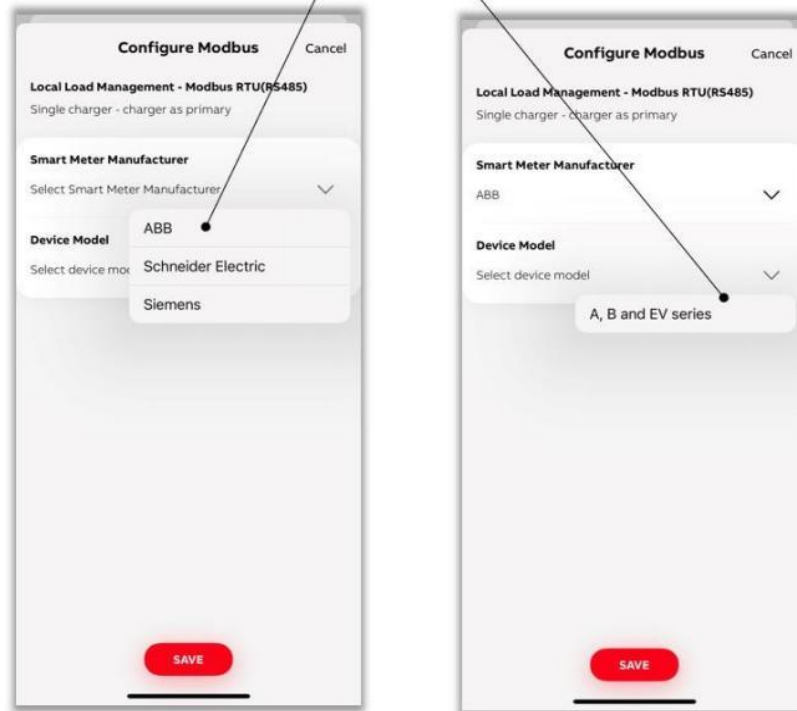


Load management:
Selezionare Gestione carico locale
Selezionare: RTU(RS485)

Non impostare la corrente massima impostabile dall'utente

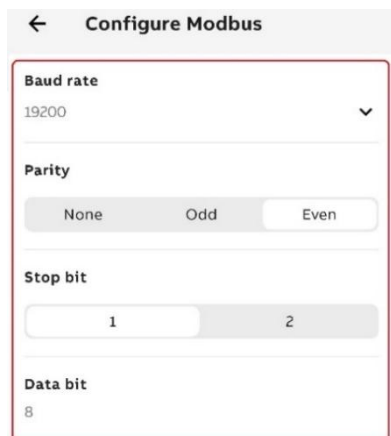
Esempio di selezione del contatore ABB

Example of selecting ABB meter



Selezionare '**ABB**' nel menu a discesa **SmartMeter Manufacturer (Produttore contatore smart)**.

Selezionare corrette modelli nel menu a discesa **Device Model (Modello dispositivo)**.



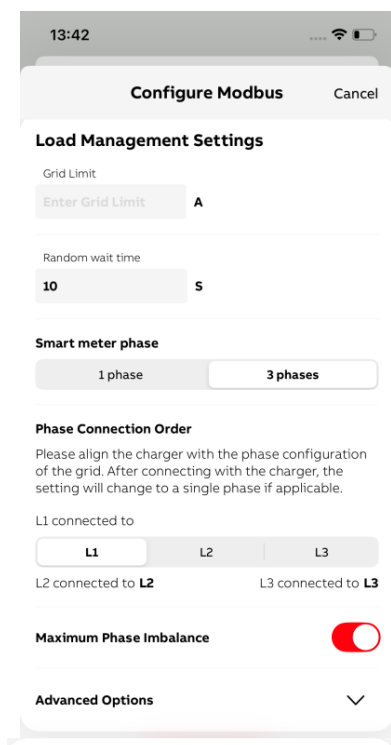
Impostare **'9600'** nel campo **Baud Rate (Velocità di trasmissione)**

Impostare **'Even'** nel campo **Parity (Parità)**

Il campo **Stop bit** (Bit di stop) deve contenere 1 e **Data bit** (Bit di dati) 8

NOTA:

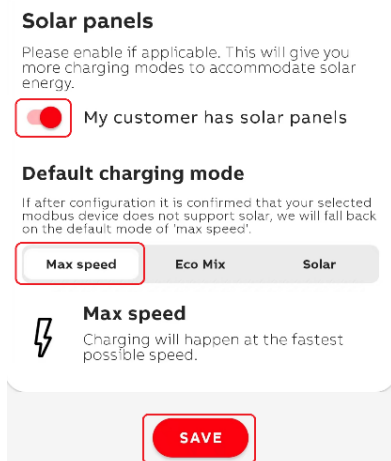
Il contatore intelligente e il caricabatterie per VE dovrebbero avere gli stessi valori.



Grid limit (Limite rete): limite massimo (in Ampere) della connessione di rete per il quale deve essere eseguito il bilanciamento del carico. Prima di impostare questo valore, controllare il fusibile principale dell'impianto residenziale. Questo valore non deve superare quello del fusibile principale!



Verificare che la fase del contatore smart e l'ordine di collegamento siano corrispondenti alla configurazione di installazione e conformi alle normative locali.



NOTA:

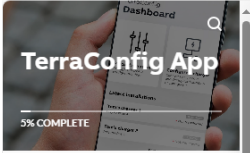
SE sono presenti pannelli solari, selezionare solo la velocità massima

Non selezionare mai EcoMix o Solar

Premere il pulsante **SAVE** (Salva) per memorizzare le impostazioni.

Terminare confermando la configurazione per salvarla sul caricabatterie del veicolo elettrico.

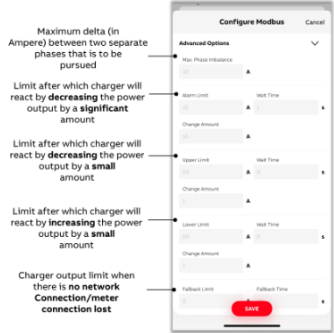
Per impostazioni/istruzioni avanzate, seguire il collegamento [App TerraConfig - Panoramica \(Chargedot.com\)](https://www.chargedot.com/app-terraconfig-panoramica), aprire Energy management (Gestione energia) e seguire le schede.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

latviski

Šajā ātrās uzstādīšanas rokasgrāmatā (ĀUR) ir īsi aprakstītas svarīgākās instalēšanas un konfigurācijas darbības EV lādētāja load management funkcionalitātei. Šī ĀUR neaizstāj EV lādētāja un enerģijas skaitītāja ražotāja uzstādīšanas rokasgrāmatu, bet ir šo dokumentu papildinājums. Papildinformācija ir pieejama EV lādētāja uzstādīšanas rokasgrāmatā un Enerģijas skaitītāja uzstādīšanas rokasgrāmatā. Šo ĀUR ir paredzēts izmantot kvalificētiem elektrības speciālistiem (uzstādītājiem), kuri ir atbildīgs par EV lādētāja un enerģijas skaitītāja uzstādīšanu load management funkcionalitātes nolūkā.

Pirms load management funkcionalitātes instalēšanas rūpīgi un uzmanīgi izlasiet šo ĀUR. Izpildiet šajā ĀUR sniegtās norādes. Chargedot neuzņemas atbildību par bojājumiem, kas radušies, neievērojot vai nepareizi izpildot šajā ĀUR aprakstītās norādes.

Vispārīgi



- **Brīdinājums** — uzstādīt elektroiekārtas, tām piekļūt, veikt to apkopes un uzturēšanas darbus drīkst tikai kvalificēti elektrības speciālisti.
- Elektroinstalācija ir jāprojektē un jāizveido atbilstoši vietējiem tiesību aktiem, drošības un elektrības normatīviem.
- Pirms uzstādīšanas darbu sākuma pārbaudiet, vai sadales skapja (patērētāju bloka) galvenais slēdzis ir iestatīts izslēgšanas pozīcijā. Pārbaudiet spriegumu, lai pārliecinātos, vai strāvas padeve ir IZSLĒGTA.

Atruna

Šajā dokumentā sniegtā informācija var tikt mainīta bez brīdinājuma, un tā nav jāuztver kā Chargedot saistības. Chargedot neuzņemas nekādu atbildību par kļūdām, ko var saturēt šis dokuments.

Chargedot nekādā gadījumā neuzņemas atbildību par tiešiem, netiešiem, tīšiem, nejaušiem vai izrietošiem jebkāda rakstura vai veida kaitējumiem, kas izriet no šī dokumenta izmantošanas, kā arī par nejaušiem vai izrietošiem kaitējumiem, kas izriet no jebkuras šajā dokumentā aprakstītās programmatūras vai aparatūras lietošanas.

⚠ Brīdinājums — darbs ar augstu spriegumu var izraisīt letālu ietekmi. Personas, kuras tiek pakļautas augsta sprieguma ietekmei, pastāv sirds apstāšanās, apdegumu un citu smagu traumu risks. Lai izvairītos no šādām traumām, pirms uzstādīšanas sākuma noteikti atvienojiet strāvas padevi.

⚠ Brīdinājums — drošības apsvērumu dēļ iekārtu ieteicams uzstādīt tā, lai nebūtu iespējams nejauši aizsniegt spaiļu blokus vai tiem pieskarties.

Drošas uzstādīšanas labākais veids ir ierīces uzstādīšana korpusā. Turklāt piekļuve aprīkojumam ir jāierobežo, izmantojot slēdzeni un atslēgu, ko kontrolē kvalificēts elektrības darbu personāls.

⚠ Brīdinājums — nedarbiniet iekārtu ārpus norādītajiem tehniskajiem datiem.

Uzstādīšanas prasības — lai ievērotu aizsardzības prasības, enerģijas skaitītājam jābūt uzstādītam IP 51 vai augstākas aizsardzības klases korpusā saskaņā ar IEC 60259.

Uzmanību — uzmanieties, lai skaitītājā un EV lādētājā neiekļūtu šķidrums, jo tas var sabojāt aprīkojumu.

Garantija un precizitāte nav spēkā, ja tiek noņemtas blīvēšanas uzlīmes.

Šī rokasgrāmata attiecas uz turpmāk norādītajiem EV lādētāju modeļiem, un to ir ieteicams kombinēt ar norādītajiem enerģijas skaitītāju modeļiem.

EV lādētājs			Enerģijas skaitītājs		
Chargedot detaļas numurs	Modelis	Trīsfāžu vai vienfāžu	ABB detaļas numurs	Modelis	Trīsfāžu vai vienfāžu
6AGC082155	Terra AC W7-G5-R-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC082156	Terra AC W11-G5-R-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC082158	Terra AC W22-G5-R-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC105906	Terra AC W7-S-R-C-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC082154	Terra AC W22-S-R-C-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC082157	Terra AC W22-G5-R-C-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC081282	Terra AC W22-S-RD-MC-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118141	Terra AC W7-S-R	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118142	Terra AC-W11-S-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118143	Terra AC W22-S-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118144	Terra AC W7-G5-R	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118145	Terra AC W22-G5-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118146	Terra AC W7-S-R-C	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118147	Terra AC W22-S-R-C	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118148	Terra AC W22-S-RD-MC	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118149	Terra AC-W11-T-RD-PC	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118155	Terra AC W7-S-R	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118156	Terra AC-W11-S-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118157	Terra AC W22-S-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118158	Terra AC W7-G5-R	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118159	Terra AC W22-G5-R	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118160	Terra AC W7-S-R-C	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC118161	Terra AC W22-S-R-C	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118162	Terra AC W22-S-RD-MC	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC118163	Terra AC-W11-T-RD-PC	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128169	Terra AC W7-G5-R-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128178	Terra AC W7-G5-R-C-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128177	Terra AC W7-S-R-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128176	Terra AC W7-S-R-C-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128175	Terra AC W11-G5-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128174	Terra AC W11-S-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128173	Terra AC W22-G5-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128171	Terra AC W22-S-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128170	Terra AC W22-S-R-C-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128195	Terra AC E7-S-R-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128196	Terra AC E7-S-R-C-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128197	Terra AC E7-G5-R-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128198	Terra AC E7-G5-R-C-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128199	Terra AC E11-S-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128200	Terra AC E11-G5-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128201	Terra AC E22-S-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128202	Terra AC E22-S-R-C-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128203	Terra AC E22-G5-R-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Vienfāžu	2CMA100155R1000	B21 312-100	Vienfāžu
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trīsfāžu	2CMA100166R1000	B23 212-100	Trīsfāžu

Energijas skaitītāju modeļi

1 fāzes EV lādētājiem

ABB daļas numurs: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3 fāžu EV lādētājiem

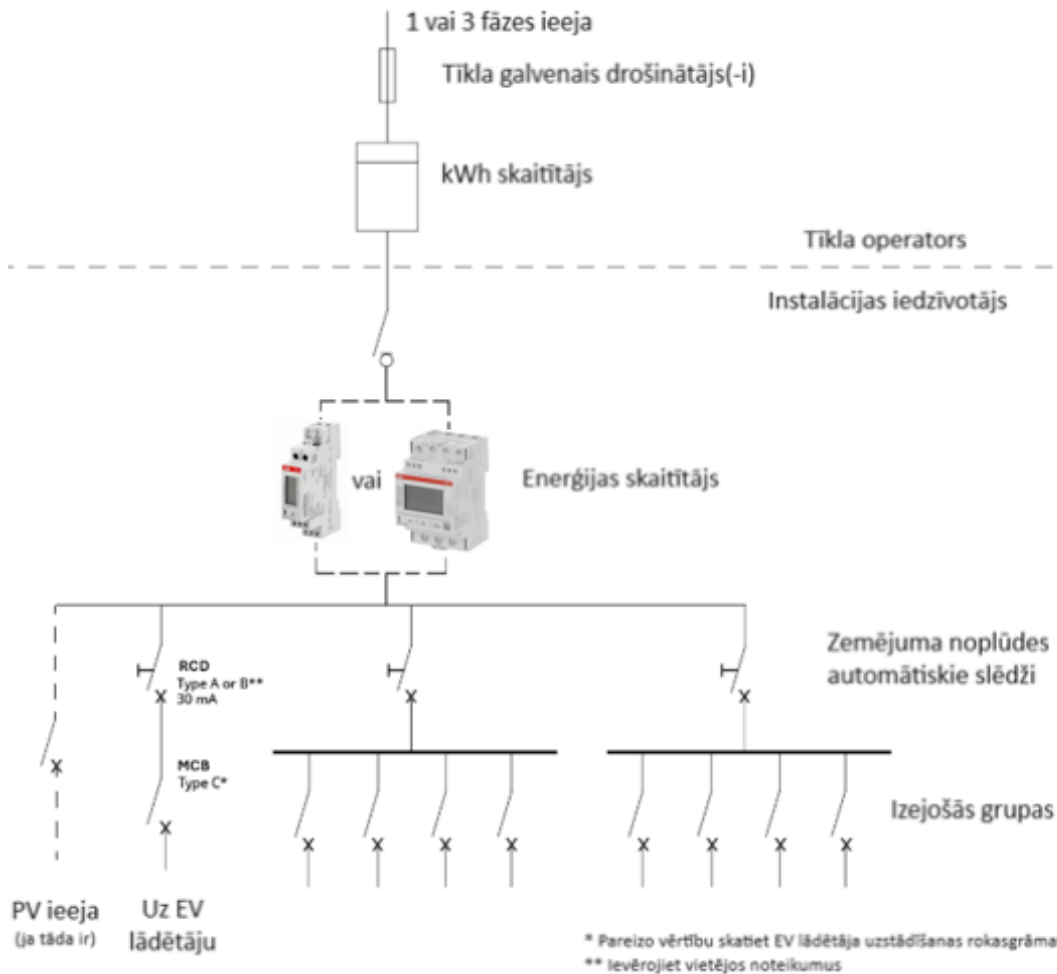
ABB daļas numurs: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



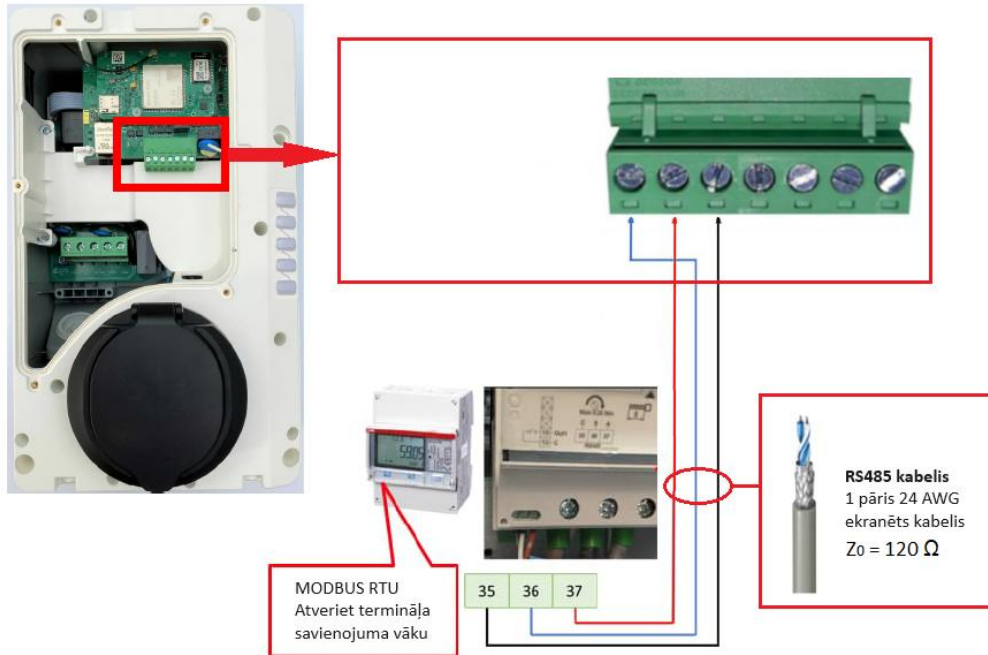
Energijas skaitītāja mehāniskajai uzstādīšanai un elektroinstalācijai izmantojiet komplektā iekļautās uzstādīšanas instrukcijas (pieejamas enerģijas skaitītāja iepakojumā) vai lejupielādējiet izmantotā enerģijas skaitītāja rokasgrāmatas no iepriekš norādītās saites *Lejupielādē pieejamos dokumentus*.



Galvenais slēdzis ir paredzēts tikai drošai atslēgšanai uzstādīšanas laikā. Enerģijas skaitītāju var novietot jebkurā vietā, kur tas mēra kopējo mājsaimniecības patēriņu – ja jūsu noplūdes slēdzis var izslēgt strāvu, tas darbojas arī kā galvenais slēdzis.

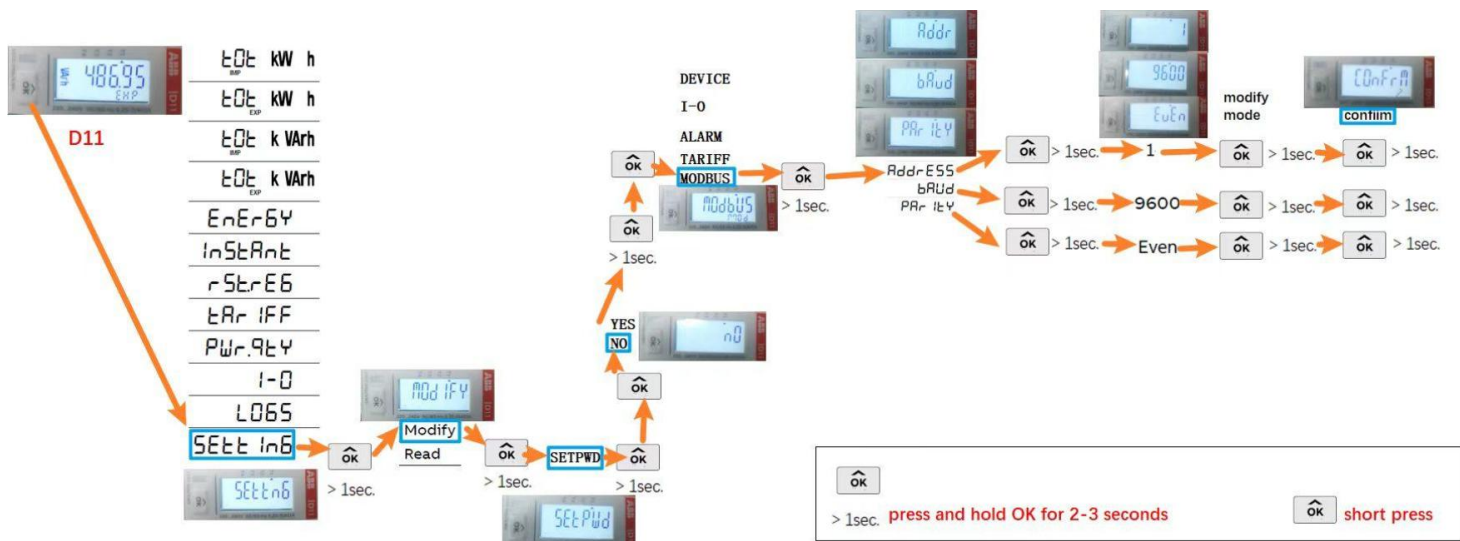
Uzstādiet enerģijas skaitītāju aiz galvenā slēdža un pirms sadales skapja ar zemējuma noplūdes jaudas slēdžiem un jaudas slēdžiem. Iepriekšējā attēlā ir redzams tipiska dzīvojamās ēkas sadales skapja (patērētāju vienības) piemērs.

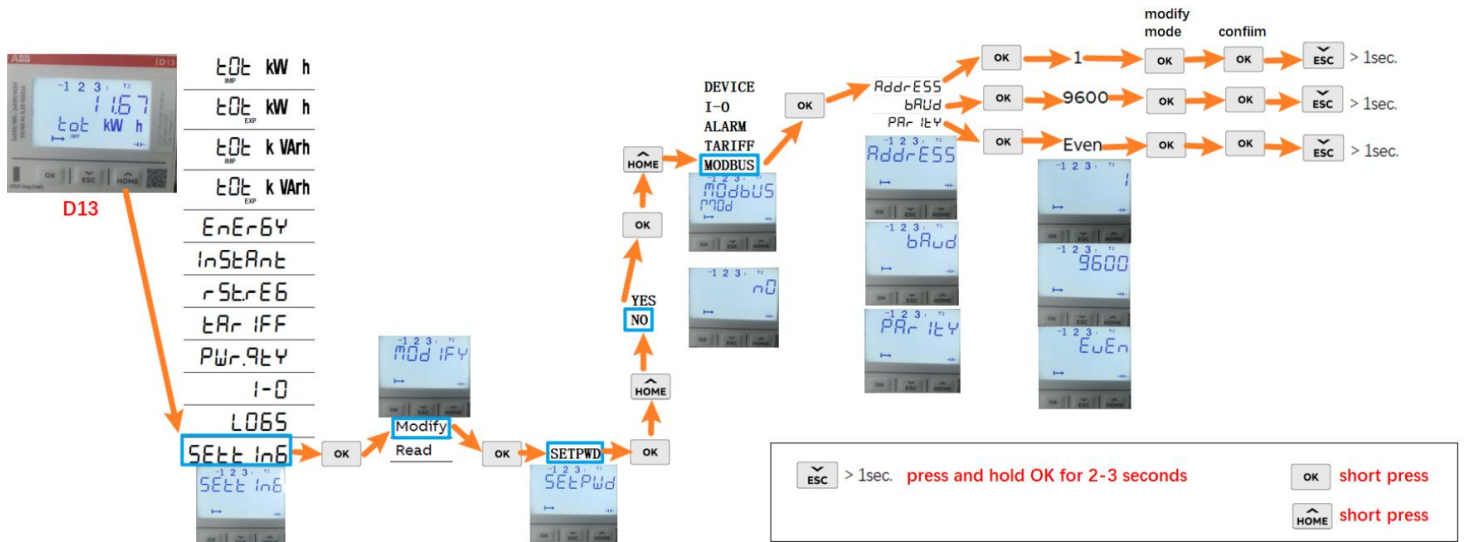
Brīdinājums — enerģijas skaitītājam vienmēr jābūt aizsargātam ar drošinātājiem ieejas pusē. Papildinformāciju skatiet enerģijas skaitītāja uzstādīšanas rokasgrāmatās.



Enerģijas skaitītāja konfigurācija — izmaiņas nav nepieciešamas

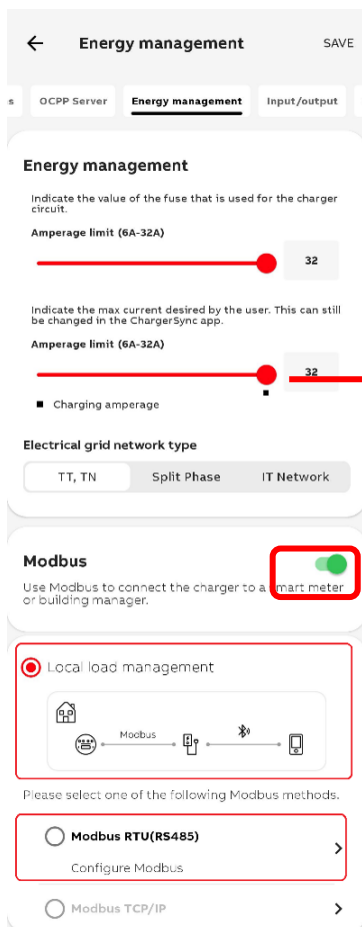
Nākamajā attēlā ir redzami enerģijas skaitītāja rūpnīcas noklusējuma iestatījumi. Šie ir pareizie load management iestatījumi, kurus nevajag mainīt.





TerraConfig nodošanas ekspluatācijā lietotne — load management

EV uzlādes vispārīgos iestatījumus skatiet tiešsaistes pamācībā — saite uz vietni Lietotne TerraConfig — pārskats (Chargedot.com)

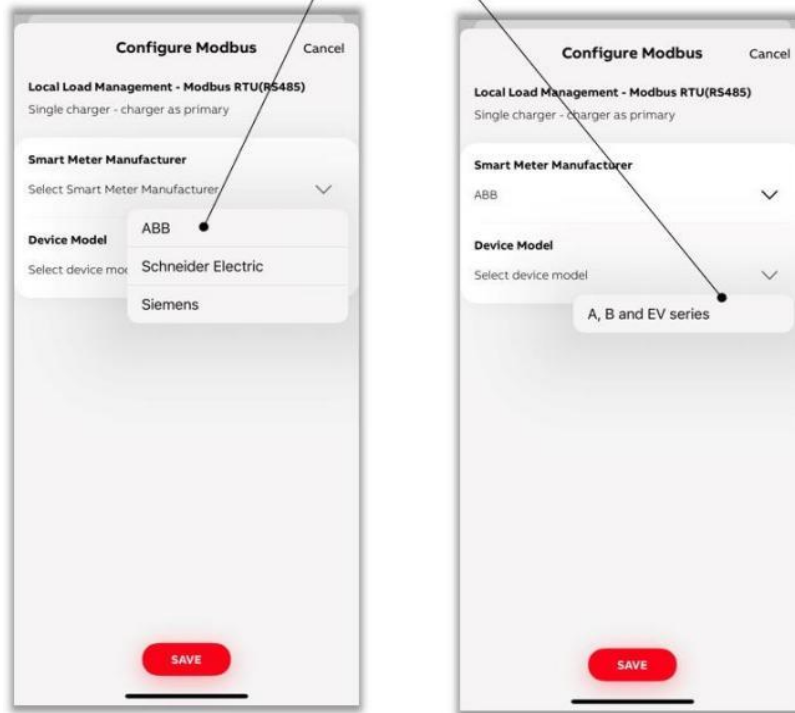


Load Management:
atlasiet vietējo load management
atlasiet: RTU(RS485)

Neiestatiet lietotāja iestatāmo maksimālo strāvu

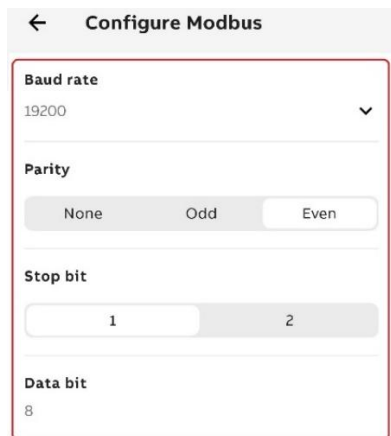
ABB skaitītāja
izvēles piemērs

Example of
selecting ABB meter



Atlasiet **“ABB”** nolaižamajā izvēlnē **SmartMeter** ražotājs.

Atlasiet pareizie modeļiem nolaižamajā izvēlnē **Ierīces** modelis.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

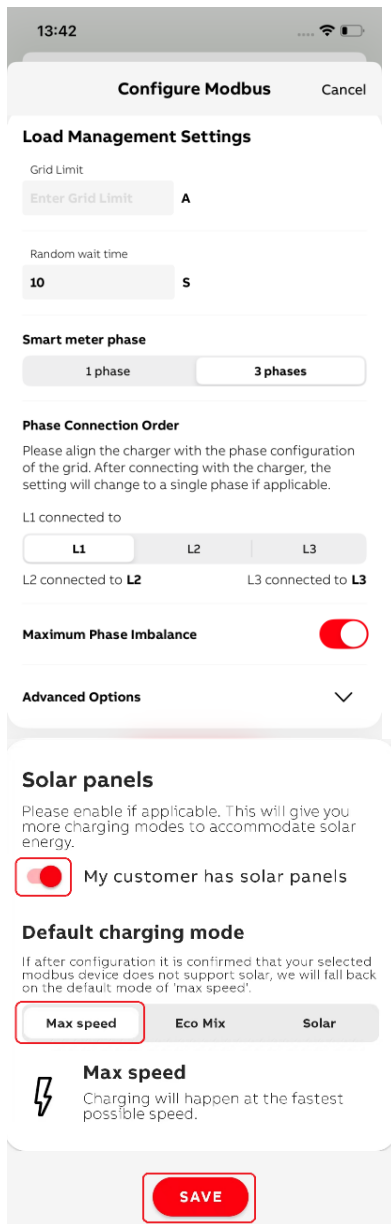
Iestatiet vienumu **Boda ātrums** kā “9600”

Iestatiet vienumu **Paritāte** kā “Vienmērīga”

Stopbitam jābūt 1, bet **datu bitam** — 8.

PIEZĪME

Viedajam skaitītājam un EV lādētājam ir jābūt ar vienādām vērtībām.



Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

Maximum Phase Imbalance
On

Advanced Options
▼

Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

Tīkla ierobežojums: tīkla savienojuma, kuram jāveic slodzes līdzsvarošana (ampēros) maksimālā robeža. Pirms šīs vērtības iestatīšanas pārbaudiet dzīvojamās ēkas galveno drošinātāju. Šo vērtību nedrīkst iestatīt augstāk par galveno drošinātāju!



Pārskatiet sadaļas “Viedā skaitītāja fāze” un “Fāzes savienojuma secība”, lai ievērotu instalācijas iestatījumus un vietējos regulējumus.

PIEZĪME:

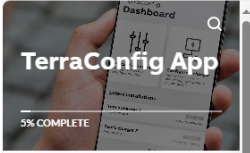
Ja ir saules paneli, izvēliet tikai maksimālo ātrumu

Nekad neizvēlieties EcoMix vai Solar

Nospiediet pogu **SAGLABĀT**, lai saglabātu iestatījumus.

Lūdzu, pabeidziet ar konfigurācijas apstiprināšanu, lai konfigurāciju saglabātu EV lādētājā.

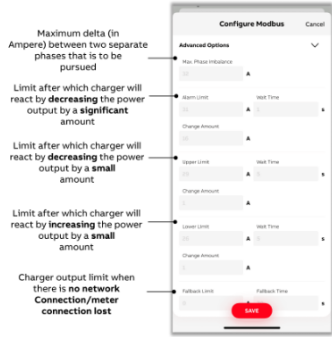
Lai skatītu papildu iestatījumus/norādes, lūdzu, sekojiet saitei [Lietotne TerraConfig — pārskats \(Chargedot.com\)](https://chargedot.com), dodieties uz sadaļu Enerģijas pārvaldība / un sekojiet cilnēm.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

lietuvių

Šiame trumpame montavimo vadove trumpai aprašomi svarbiausi EV įkroviklio apkrovos valdymo (Load Management) funkcijos diegimo ir konfigūravimo veiksmai. Šis trumpas montavimo vadovas nepakeičia gamintojo pateikto EV įkroviklio ir energijos skaitiklio montavimo vadovo, jis tik papildo šiuos dokumentus. Išsamesnė informacija pateikiama EV įkroviklio montavimo vadove ir Energijos skaitiklio montavimo vadove. Šis trumpas montavimo vadovas skirtas naudoti kvalifikuotiems elektrikams (montuotojams), kurie yra atsakingi už EV įkroviklio ir energijos skaitiklio įrengimą apkrovai valdyti.

Prieš diegdami apkrovos valdymo (Load Management) funkciją, atidžiai ir atidžiai perskaitykite šį trumpą montavimo vadovą. Vadovaukitės šiame trumpame montavimo vadove pateiktais nurodymais. Chargedot neatsako už jokią žalą, atsiradusią nesilaikant arba neteisingai vykdant šiame trumpame montavimo vadove aprašytus nurodymus.

Bendrieji dalykai:

Įspėjimas – Elektros įrangą montuoti, turėti prie jos prieigą, ją tvarkyti ir prižiūrėti turėtų tik kvalifikuoti elektrikai.



Elektros instaliacija turi būti suprojektuota ir įrengta laikantis vietinių įstatymų, saugos ir elektros taisyklių.

Prieš pradėdami montavimo darbus, įsitikinkite, kad pagrindinis skirstomosios spintos (vartotojų bloko) jungiklis yra nustatytas į OFF (IŠJUNGTA) padėtį. Patikrinkite įtampą, kad įsitikintumėte, jog elektros maitinimas IŠJUNGTA.

Atsakomybės apribojimas

Šiame dokumente pateikta informacija gali būti keičiama be įspėjimo, ir ji neturėtų būti suprantama kaip Chargedot įsipareigojimas. Chargedot neprisiima jokios atsakomybės už klaidas, kurių gali pasitaikyti šiame dokumente.

Chargedot jokių atvejų nėra atsakinga už tiesioginę, netiesioginę, specialią, atsitiktinę ar pasekminę žalą, atsiradusią dėl šio dokumento naudojimo, taip pat Chargedot neatsako už atsitiktinę ar pasekminę žalą, kylančią dėl bet kokios šiame dokumente aprašytos programinės ar techninės įrangos naudojimo.

⚠ Įspėjimas – Dirbant su aukšta įtampa gali kilti grėsmė gyvybei. Veikiant aukštai įtampai žmogui gali sustoti širdis, žmogus gali nudengti arba patirti kitų sunkių sužalojimų. Kad išvengtumėte tokių sužalojimų, prieš pradėdami montuoti būtinai atjunkite maitinimą.

⚠ Įspėjimas – Saugumo sumetimais prietaisą rekomenduojama įrengti taip, kad jo nebūtų galima netyčia pasiekti arba paliesti gnybtų blokų.

Prietaisą įrengti saugiausia sumontuojant jį korpuse. Be to, prieiga prie įrangos turėtų būti apribota naudojant užraktą su raktu, kuris turi būti kvalifikuoto elektriko žinioje.

⚠ Įspėjimas – Nenaudokite prietaiso ne pagal nurodytus techninius duomenis.

Diegimo reikalavimai – Laikantis apsaugos reikalavimų energijos skaitiklis turi būti sumontuotas IP 51 arba aukštesnės apsaugos klasės korpusuose pagal IEC 60259.

Įspėjimas – Būkite atsargūs, kad į skaitiklį ir EV įkroviklį nepatektų skysčio, nes tai gali sugadinti įrangą.

Nuėmus sandarinimo etiketes, garantija negalioja ir tikslumas negarantuojamas.

Šis vadovas taikomas tokiems EV įkroviklio modeliams, kuriuos rekomenduojama derinti su nurodytais energijos skaitiklių modeliais:

EV įkroviklis			Energijos skaitiklis		
Chargedot detalės numeris	Modelis	Trifazis arba vienfazis	ABB detalės numeris	Modelis	Trifazis arba vienfazis
6AGC082155	Terra AC W7-G5-R-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC082156	Terra AC W11-G5-R-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC082158	Terra AC W22-G5-R-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC105906	Terra AC W7-S-R-C-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC082154	Terra AC W22-S-R-C-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC082157	Terra AC W22-G5-R-C-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC081282	Terra AC W22-S-RD-MC-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118141	Terra AC W7-S-R	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118142	Terra AC-W11-S-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118143	Terra AC W22-S-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118144	Terra AC W7-G5-R	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118145	Terra AC W22-G5-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118146	Terra AC W7-S-R-C	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118147	Terra AC W22-S-R-C	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118148	Terra AC W22-S-RD-MC	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118149	Terra AC-W11-T-RD-PC	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118155	Terra AC W7-S-R	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118156	Terra AC-W11-S-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118157	Terra AC W22-S-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118158	Terra AC W7-G5-R	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118159	Terra AC W22-G5-R	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118160	Terra AC W7-S-R-C	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC118161	Terra AC W22-S-R-C	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118162	Terra AC W22-S-RD-MC	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC118163	Terra AC-W11-T-RD-PC	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128169	Terra AC W7-G5-R-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128178	Terra AC W7-G5-R-C-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128177	Terra AC W7-S-R-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128176	Terra AC W7-S-R-C-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128175	Terra AC W11-G5-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128174	Terra AC W11-S-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128173	Terra AC W22-G5-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128171	Terra AC W22-S-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128195	Terra AC E7-S-R-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128196	Terra AC E7-S-R-C-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128197	Terra AC E7-G5-R-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128198	Terra AC E7-G5-R-C-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128199	Terra AC E11-S-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128200	Terra AC E11-G5-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128201	Terra AC E22-S-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128203	Terra AC E22-G5-R-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Vienfazis	2CMA100155R1000	B21 312-100	Vienfazis
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifazis	2CMA100166R1000	B23 212-100	Trifazis

Energijos skaitiklių modeliai

1 fazės EV įkrovikliams

ABB dalies numeris: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3 fazių EV įkrovikliams

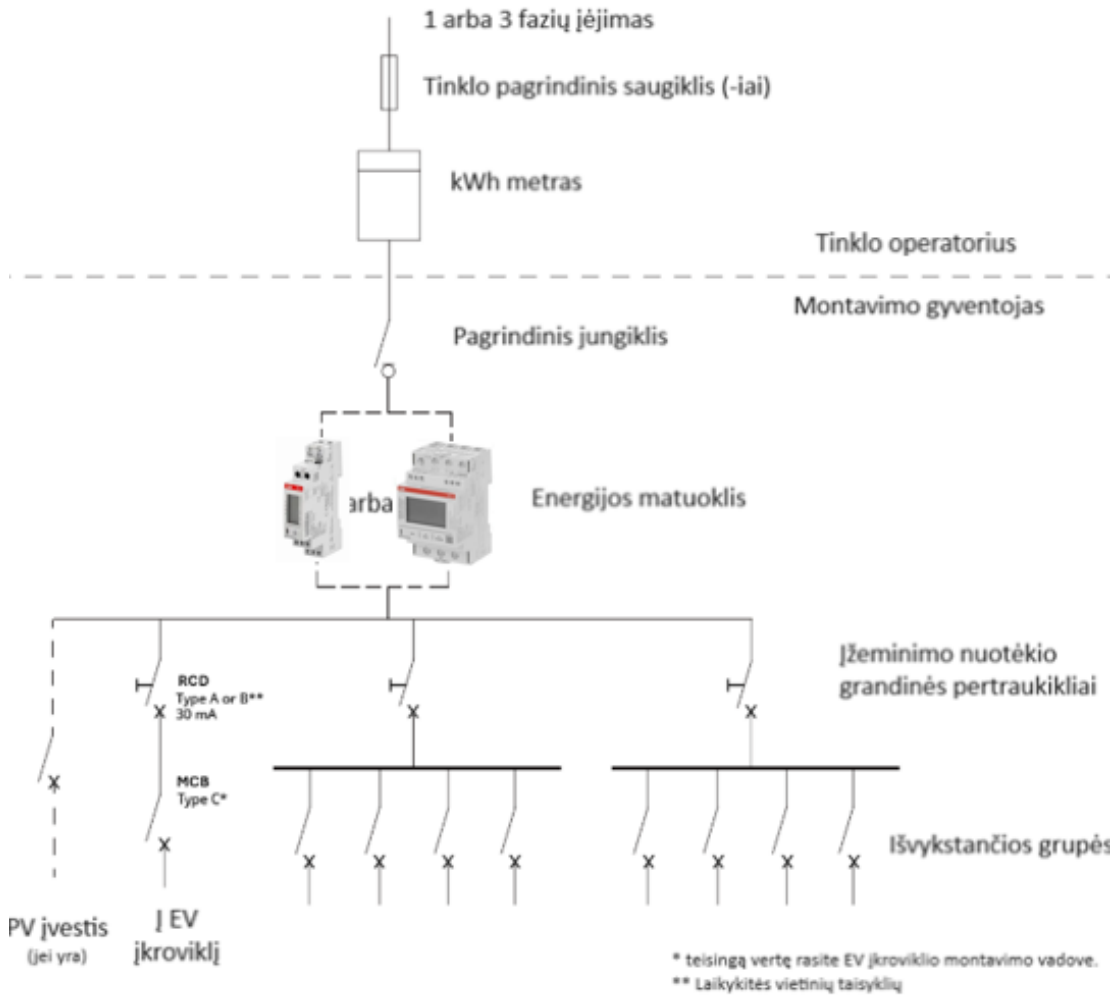
ABB dalies numeris: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



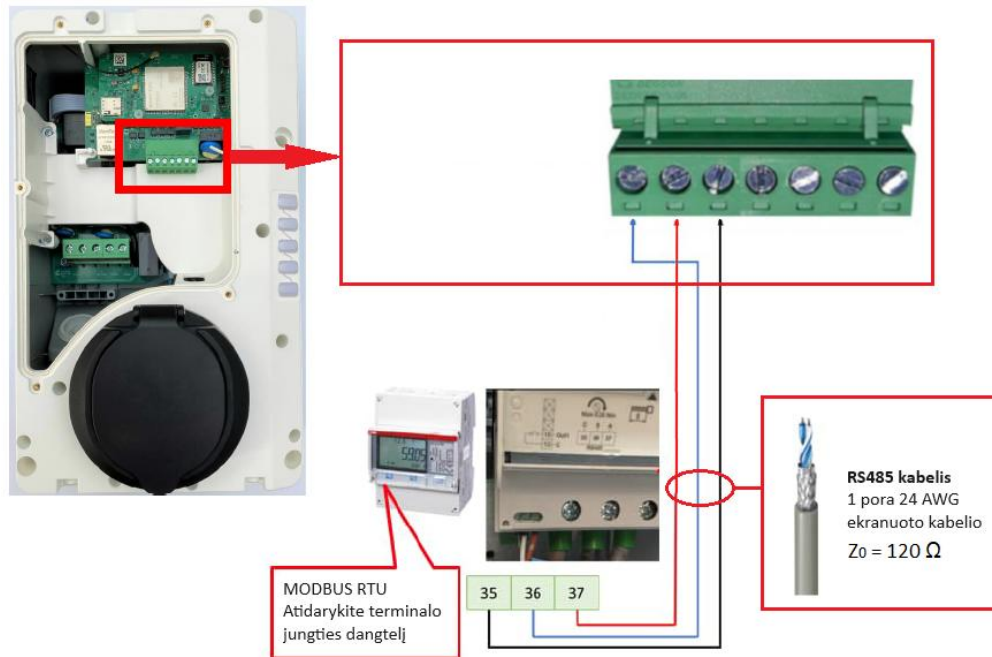
Energijos skaitiklio mechaniniam ir elektriniam montavimui naudokite pridedamas montavimo instrukcijas (jas galima rasti energijos skaitiklio pakuotėje) arba atsisiųskite naudojamo skaitiklio vadovus spragtelėdami pirmiau pateiktą nuorodą *Turimų dokumentų parsisiuntimas*.



Pagrindinis jungiklis skirtas tik saugiam atjungimui montavimo metu. Energijos skaitiklį galima pastatyti bet kur, kur jis matuoja bendrą namų ūkio suvartojimą – jei jūsų apsauginis nuotėkio jungiklis gali išjungti maitinimą, jis veikia ir kaip pagrindinis jungiklis.

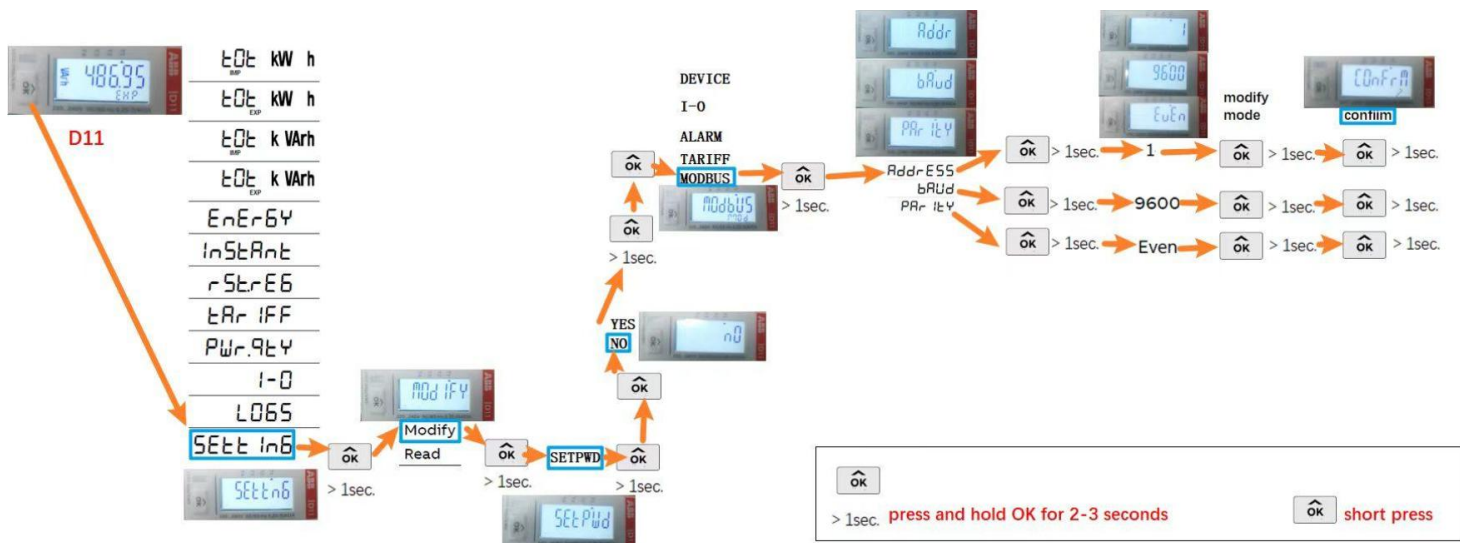
Energijos skaitiklį sumontuokite už pagrindinio jungiklio ir prieš skirstomąją spintą su žemės nuotėkio pertraukikliais ir grandinės pertraukikliais. Pirmiau pateiktame paveikslėlyje vaizduojamas tipinės gyvenamosios paskirties paskirstymo spintos (vartotojų bloko) pavyzdys.

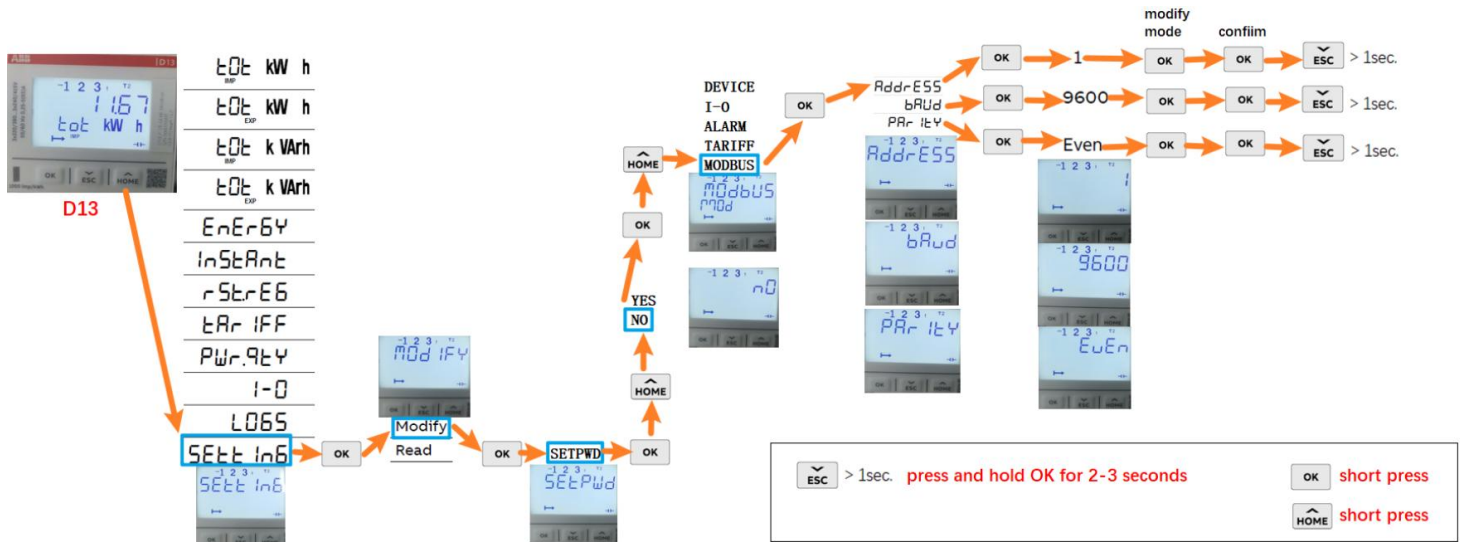
Įspėjimas – Energijos skaitiklis visada turi būti apsaugotas saugikliais įėjimo pusėje. Daugiau informacijos rasite energijos skaitiklio montavimo vadove.



Energijos skaitiklio konfiguracija – keisti nereikia

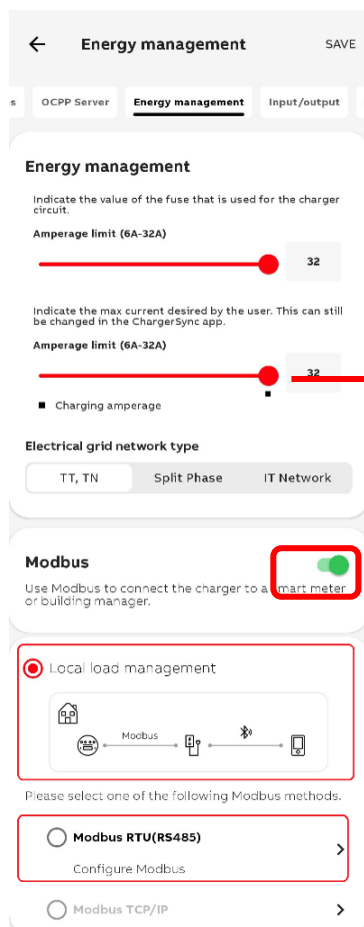
Toliau pateiktame paveikslėlyje parodyti numatytieji gamykliniai energijos skaitiklio nustatymai. Tai yra teisingi apkrovos valdymo (Load Management) nustatymai, ir jie neturėtų būti keičiami.





"TerraConfig" paleidimo programa – apkrovos valdymui (Load Management)

Bendruosius EV įkrovimo nustatymus žr. internetinę mokymo programą – nuoroda į svetainę ["TerraConfig" programa – apžvalga \(Chargedot.com\)](http://TerraConfig programa - apžvalga (Chargedot.com))



Apkrovos valdymas (Load Management):

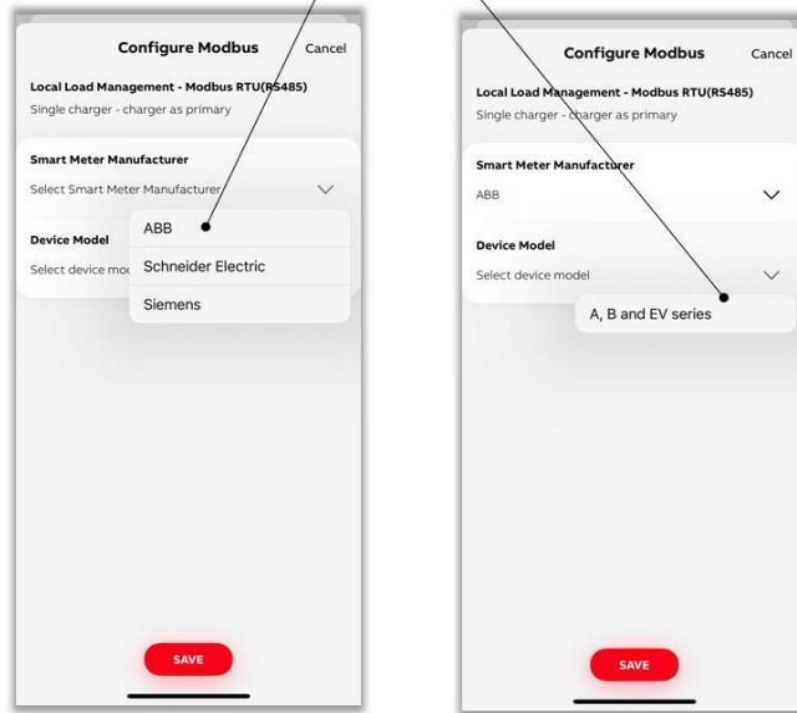
Pasirinkti vietinį apkrovos valdymą Pasirinkite (Local Load Management):

Pasirinkti: RTU(RS485)

Nenustatykite naudotojo nustatomos maksimalios srovės

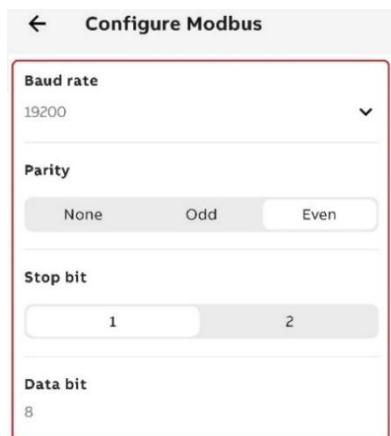
ABB skaitiklio pasirinkimo pavyzdys

Example of selecting ABB meter



Išmaniojo skaitiklio gamintojo (**Smart Meter Manufacturer**) išskleidžiamajame meniu pasirinkite '**ABB**'.

pasirinkite teisingi modeliai viduje **Device Model (Prietaiso modelio)** išskleidžiamajame meniu



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

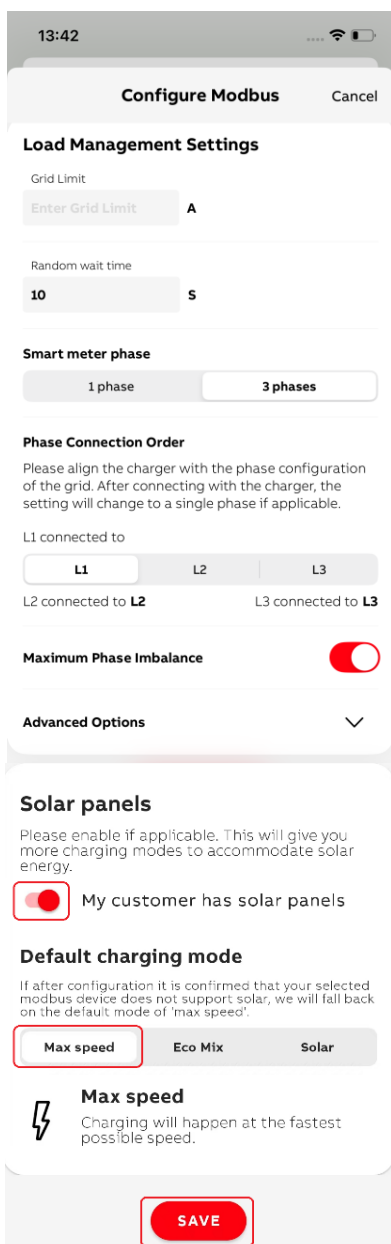
Nustatyti **Spartą (Baud Rate)** į '9600'.

Nustatyti **Lyginumą (Parity)** į 'Lygus (Even)'

Stabdymo bitas (Stop bit) turi būti 1, o **Duomenų bitas (Data bit)** turi būti 8

PASTABA:

Išmanusis skaitiklis ir EV įkroviklis turėtų turėti tas pačias vertes.



Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

Maximum Phase Imbalance

Advanced Options

Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

Tinkelio riba: didžiausia tinklo jungties riba (amperais), kuriai reikia atlikti apkrovos balansavimą. Prieš nustatydami šią vertę, patikrinkite pagrindinį būsto instaliacijos saugiklį. Ši vertė neturi būti didesnė už pagrindinį saugiklį!



„Išmaniojo skaitiklio fazės“ ir „Fazės prijungimo tvarkos“ peržiūra siekiant įsitikinti, kad jos atitinka montavimo tvarką ir vietos taisykles.

PASTABA:

Jei yra saulės plokeliai, pasirinkite tik maksimalus greitis

Niekada nesirinkite "EcoMix" arba "Solar"

Nustatymams išsaugoti nuspaudžiamas **SAVE (IŠSAUGOTI)** mygtukas.

Užbaikite patvirtindami konfigūraciją, kad išsaugotumėte ją EV įkroviklyje.

Norėdami gauti išplėstinius nustatymus / instrukcijas, spustelėkite nuorodą [„TerraConfig“ programa – apžvalga \(Chargedot.com\)](https://www.chargedot.com/TerraConfig)
ir eikite į Energijos valdymas / ir sekite skirtukus.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

norsk

Denne hurtiginstallasjonsveiledningen (QIG) beskriver kort de viktigste installasjons- og konfigurasjonstrinnene for load management-funksjonaliteten til elbilladeren. Denne QIG-en er ikke en erstatning for produsentens installasjonshåndbok for elbilladeren og energimåleren, den er gratis for disse dokumentene. Mer detaljert informasjon er tilgjengelig i installasjonshåndboken for elbilladeren og installasjonshåndboken for energimåleren. Denne QIG er ment å brukes av kvalifisert elektrisk personell (installatør) som er ansvarlig for installasjonen av elbilladeren og energimåleren med tanke på load management-funksjonaliteten.

Før du installerer load management-funksjonaliteten, les denne QIG-en nøye og nøye. Følg instruksjonene i denne QIG-en. Chargedot er ikke ansvarlig for skader som er forårsaket av å ikke eller feilaktig følge og utføre instruksjonene beskrevet i denne QIG-en.

Generelt:



- **Advarsel** – Elektrisk utstyr skal kun installeres, gås inn på, utføres service på og vedlikeholdes av kvalifisert elektrisk personell.
- Den elektriske installasjonen bør designes og konstrueres i henhold til lokale lover, sikkerhets- og elektriske forskrifter.
- Sørg for at hovedbryteren til fordelerskapet (forbrukerenhet) er satt til AV-posisjon, før du starter installasjonsarbeidet. Utfør en spenningssjekk for å sikre at den elektriske strømmen er slått AV.

Ansvarsfraskrivelse

Informasjonen i dette dokumentet kan endres uten varsel og skal ikke tolkes som en forpliktelse for Chargedot. Chargedot påtar seg intet ansvar for eventuelle feil som kan vises i dette dokumentet.

Chargedot skal ikke under noen omstendigheter holdes ansvarlig for direkte, indirekte, spesielle, tilfeldige eller følgeskader av noen art eller type som oppstår ved bruk av dette dokumentet, og Chargedot skal heller ikke holdes ansvarlig for tilfeldige skader eller følgeskader som oppstår fra bruk av programvare eller maskinvare beskrevet i dette dokumentet.

 **Advarsel** – Arbeid med høyspenning er potensielt dødelig. Personer som utsettes for høyspenning kan få hjertestans, brannskader eller andre alvorlige personskader. For å unngå slike skader, sørg for å koble fra strømforsyningen før du starter installasjonen.

 **Advarsel** – Av sikkerhetsgrunner anbefales det at utstyret installeres på en måte som gjør det umulig å nå eller berøre rekkeklemmene ved et uhell.

Den beste måten å utføre en sikker installasjon på er å installere enheten i et kabinett. Videre bør tilgang til utstyret begrenses ved bruk av lås og nøkkel, kontrollert av kvalifisert elektrisk personell.

 **Advarsel** – Ikke bruk utstyret utenfor spesifiserte tekniske data.

Installasjonskrav – For å overholde beskyttelseskravene må energimåleren monteres i kabinett av beskyttelsesklasse IP 51, eller bedre, i henhold til IEC 60259.

Forsiktighet – Pass på at det ikke kommer væske inn i måleren og elbilladeren, siden det kan skade utstyret.

Garantien og nøyaktigheten er ugyldig dersom forseglingsetiketter fjernes.

Denne håndboken gjelder for følgende elbilladermodeller og anbefales å kombineres med angitte energimålermodeller:

Elbillader			Energimåler		
Chargedot delenummer	Modell	Trefaset eller enfaset	ABB delenummer	Modell	Trefaset eller enfaset
6AGC082155	Terra AC W7-G5-R-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC082156	Terra AC W11-G5-R-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC082158	Terra AC W22-G5-R-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC105906	Terra AC W7-S-R-C-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC082154	Terra AC W22-S-R-C-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC082157	Terra AC W22-G5-R-C-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC081282	Terra AC W22-S-RD-MC-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118141	Terra AC W7-S-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118142	Terra AC-W11-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118143	Terra AC W22-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118144	Terra AC W7-G5-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118145	Terra AC W22-G5-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118146	Terra AC W7-S-R-C	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118147	Terra AC W22-S-R-C	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118148	Terra AC W22-S-RD-MC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118149	Terra AC-W11-T-RD-PC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118155	Terra AC W7-S-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118156	Terra AC-W11-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118157	Terra AC W22-S-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118158	Terra AC W7-G5-R	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118159	Terra AC W22-G5-R	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118160	Terra AC W7-S-R-C	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC118161	Terra AC W22-S-R-C	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118162	Terra AC W22-S-RD-MC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC118163	Terra AC-W11-T-RD-PC	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128169	Terra AC W7-G5-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128178	Terra AC W7-G5-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128177	Terra AC W7-S-R-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128176	Terra AC W7-S-R-C-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128175	Terra AC W11-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128174	Terra AC W11-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128173	Terra AC W22-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128171	Terra AC W22-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128170	Terra AC W22-S-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Enfaset	2CMA100155R1000	B21 312-100	Enfaset

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128195	Terra AC E7-S-R-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128196	Terra AC E7-S-R-C-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128197	Terra AC E7-G5-R-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128198	Terra AC E7-G5-R-C-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128199	Terra AC E11-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128200	Terra AC E11-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128201	Terra AC E22-S-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128202	Terra AC E22-S-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128203	Terra AC E22-G5-R-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Enfasaset	2CMA100155R1000	B21 312-100	Enfasaset
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trefaset	2CMA100166R1000	B23 212-100	Trefaset

Energimålermodeller

For 1-fasede elbilladere

ABB-delenummer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



For 3-fasede elbilladere

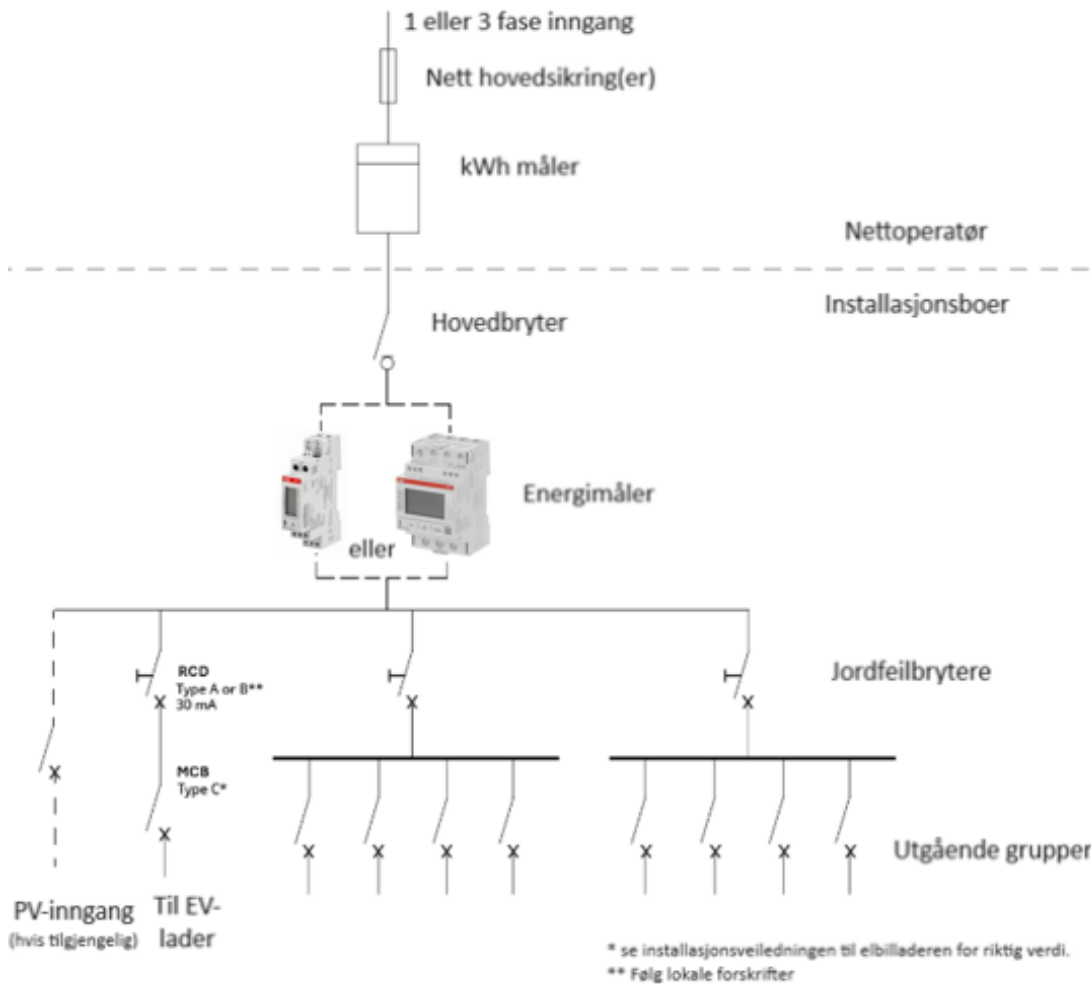
ABB-delenummer: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



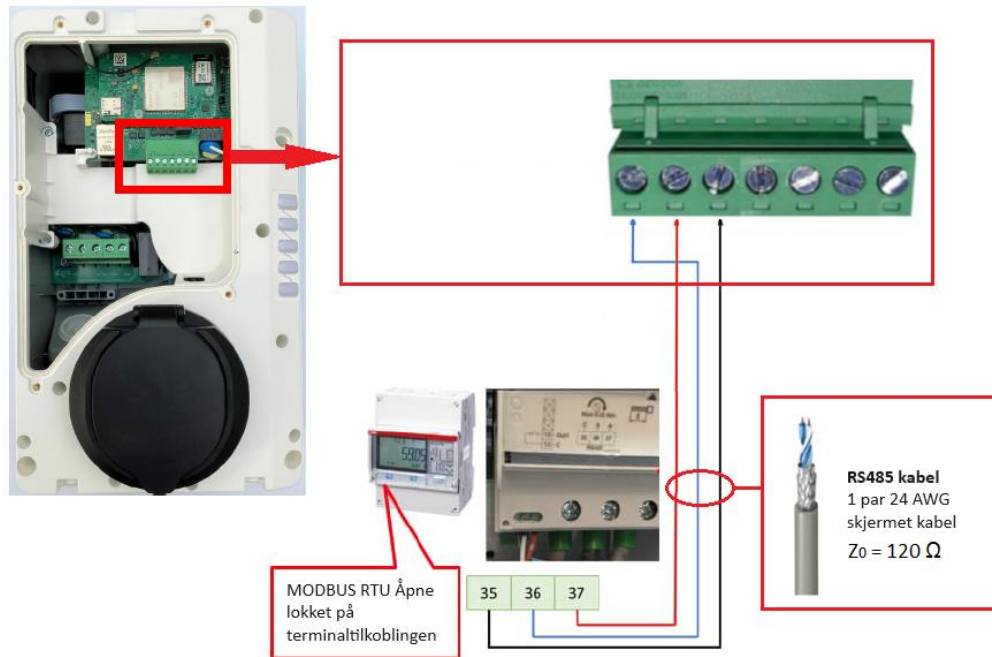
For mekanisk og elektrisk installasjon av energimåleren, bruk den medfølgende installasjonsveiledningen (finnes i emballasjen til energimåleren) eller last ned håndbøker for den brukte energimåleren i lenken *Dokumenter tilgjengelige for nedlasting* ovenfor.



Hovedbryteren er kun for sikkerhetsfrakobling under installasjon. Energimåleren kan plasseres hvor som helst som måler husholdningens totale forbruk - hvis din jordfeilbryter kan slå av strømmen, fungerer den også som en hovedbryter.

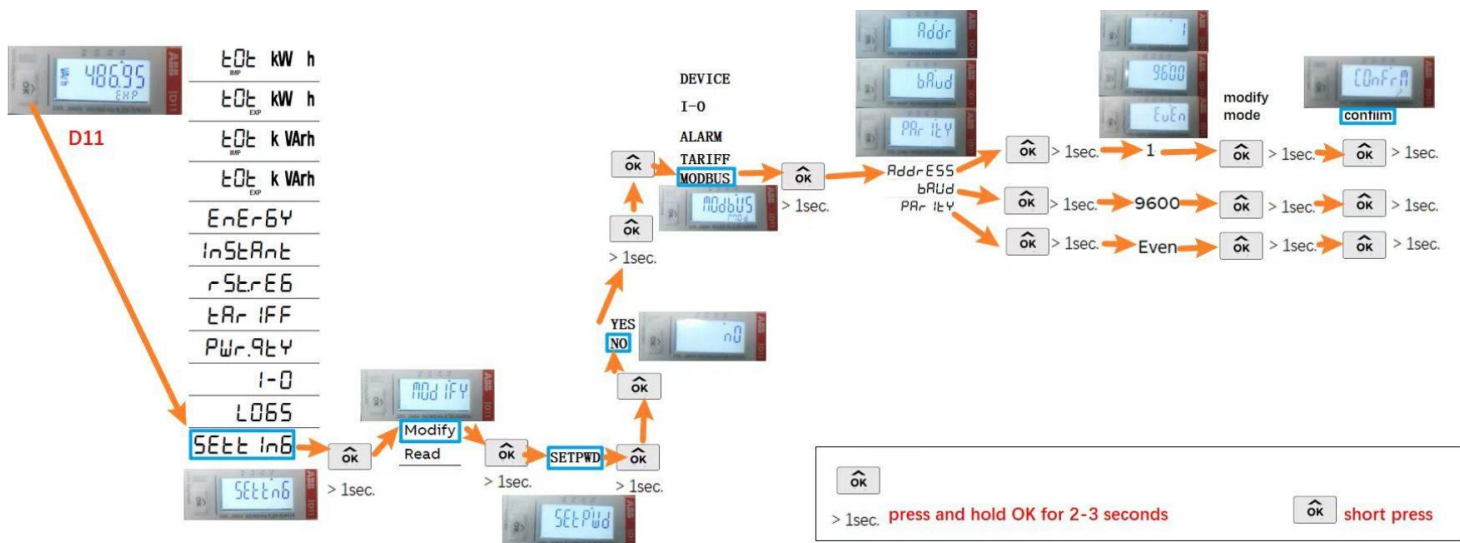
Installer energimåleren etter hovedbryteren og foran fordelingsskapet med jordfeilbrytere og effektbrytere. Figuren over er et eksempel på et typisk boligfordelingsskap (forbrukerenhet).

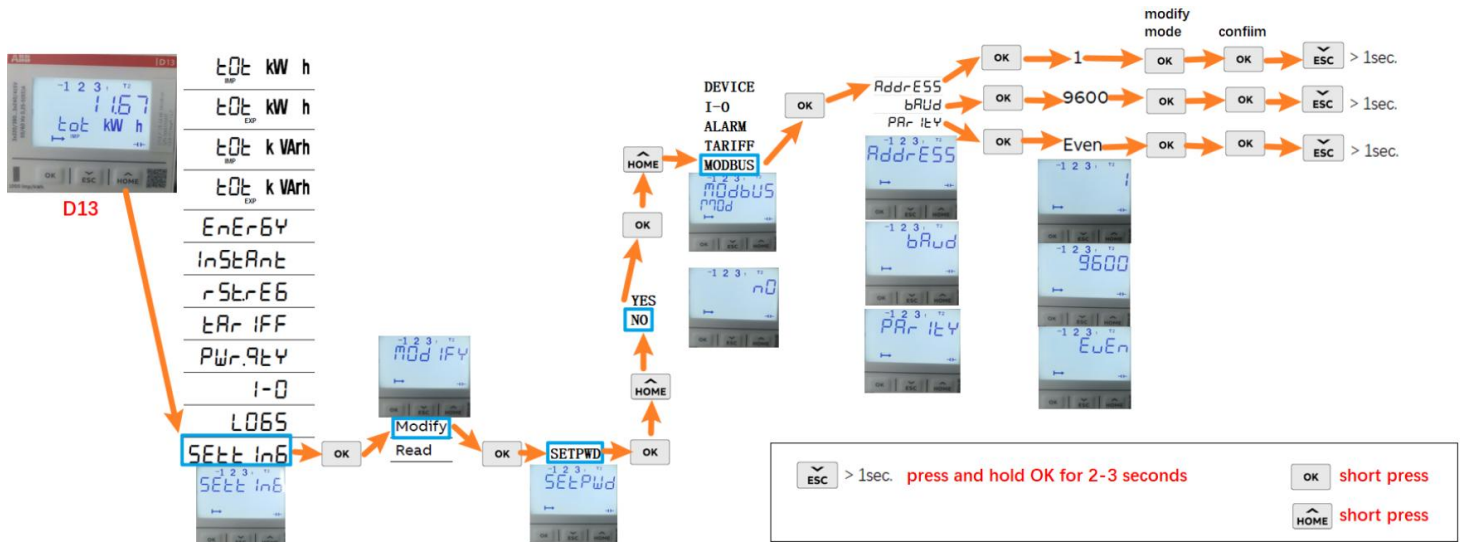
Advarsel - Energimåleren skal alltid være beskyttet av sikringer på innskommende side. Se installasjonshåndbøkene til energimåleren for mer informasjon.



Energimålerkonfigurasjon – Kreves ingen endring

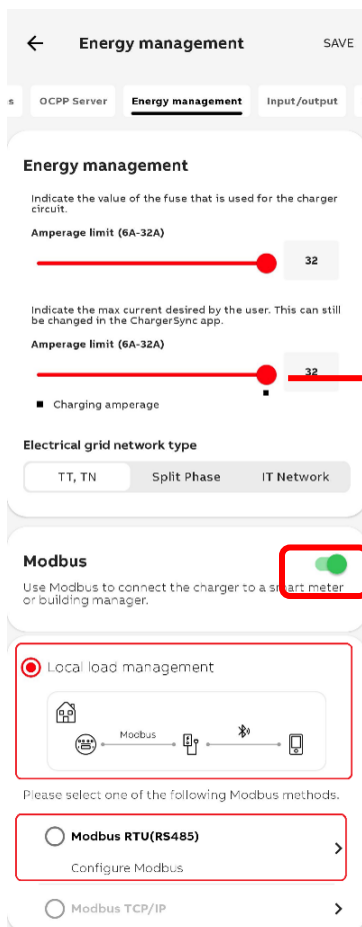
Figuren nedenfor viser standard fabrikkinnstillinger for energimåleren. Det er de riktige innstillingene for load management og bør ikke endres.





TerraConfig-idriftsettelsesapp – For load management

For generelle innstillinger for elbillading, se nettveiledningen – Lenke til nettstedet [TerraConfig App – Oversikt \(Chargedot.com\)](#)

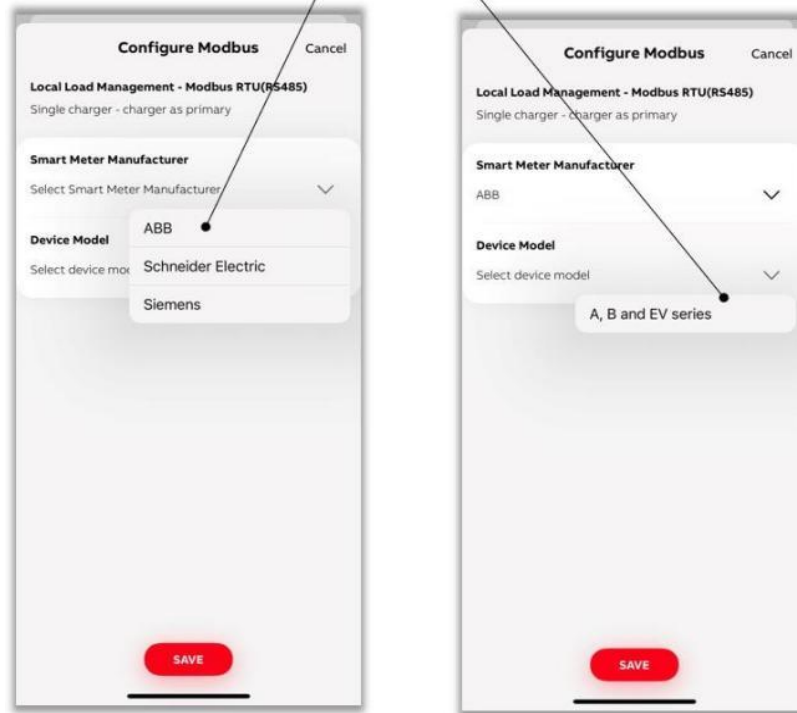


Load Management:
Velg lokal load management
Velg: RTU(RS485)

► Ikke still inn den brukerinnstillbare maksstrømmen

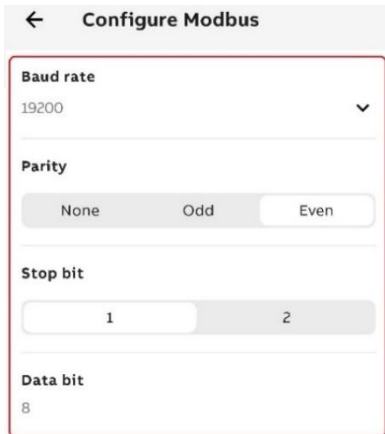
Eksempel på
valg av ABB-måler

Example of
selecting ABB meter



Velg '**ABB**' i **SmartMeter-produzent**-nedtrekksmenyen.

Velg riktige modeller i **Enhetsmodell**-nedtrekksmenyen.



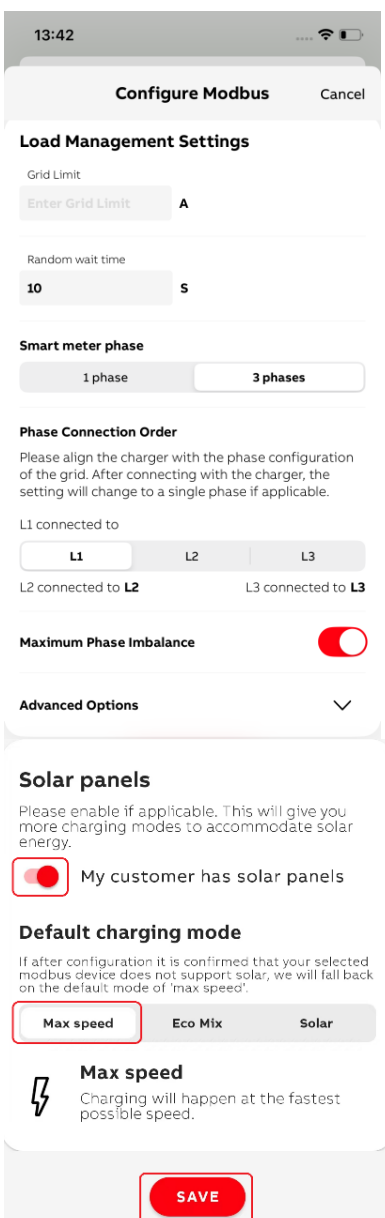
Sett **Baudrate** til '**9600**'

Sett **Paritet** til '**Lik**'

Stopbit må være 1 og **Databit** må være 8

MERK:

Smartmåler og elbillader skal ha samme verdier.



Nettgrense: maksimal grense (i ampere) for nettilkoblingen som lastbalansering skal utføres for. Før du stiller inn denne verdien, kontroller hovedsikringen til boliginstallasjonen. Denne verdien bør ikke settes høyere enn hovedsikringen!



For å gjennomgå 'Smartmålerfase' og 'Fasetilkoblingsrekkefølge' for å være i tråd med installasjonsoppsettet og lokale forskrifter.

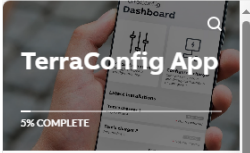
MERK:

Hvis solpaneler er til stede, velg kun maks hastighet
Velg aldri EcoMix eller Solar

Trykk **LAGRE** for å lagre innstillingene.

Avslutt med å bekrefte konfigurasjonen for å lagre konfigurasjonen på elbilladeren.

For avanserte innstillinger/instruksjoner, følg lenken [TerraConfig App - Oversikt \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-App-Oversikt) og gå til energistyring, og følg deretter fanene.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Polski

W niniejszej skróconej instrukcji instalacji (QIG) opisano w skrócie najważniejsze kroki instalacji i konfiguracji funkcji load management ładowarki EV. Niniejsza instrukcja QIG nie zastępuje instrukcji instalacji producenta ładowarki EV i miernika energii, a stanowi uzupełnienie tych dokumentów. Bardziej szczegółowe informacje można znaleźć w instrukcji instalacji ładowarki EV i instrukcji instalacji miernika energii. Niniejsza instrukcja QIG jest przeznaczona do użytku przez wykwalifikowanego elektryka (instalatora), który jest odpowiedzialny za instalację ładowarki EV i miernika energii dla potrzeb funkcji load management.

Przed zainstalowaniem funkcji load management należy uważnie przeczytać niniejszą instrukcję QIG. Należy postępować zgodnie z instrukcjami zawartymi w niniejszej instrukcji QIG. Firma Chargedot nie ponosi odpowiedzialności za jakiegokolwiek szkody spowodowane nieprzestrzeganiem lub nieprawidłowym stosowaniem i wykonywaniem instrukcji opisanych w niniejszej instrukcji QIG.

Ogólne informacje:



- **Ostrzeżenie** — Urządzenia elektryczne powinny być instalowane, otwierane, serwisowane i konserwowane wyłącznie przez wykwalifikowanych elektryków.
- Instalacja elektryczna powinna być zaprojektowana i wykonana zgodnie z przepisami lokalnymi, przepisami bezpieczeństwa i przepisami elektrycznymi.
- Przed rozpoczęciem prac instalacyjnych należy upewnić się, że główny wyłącznik w szafce rozdzielczej (szafki instalacyjnej) jest ustawiony w pozycji WYŁ. Wykonać kontrolę napięcia, aby sprawdzić, czy zasilanie elektryczne jest WYŁĄCZONE.

Zastrzeżenie

Informacje zawarte w niniejszym dokumencie mogą ulec zmianie bez powiadomienia i powinny być interpretowane jako zobowiązanie firmy Chargedot. Chargedot nie ponosi żadnej odpowiedzialności za jakiegokolwiek błędy, które mogą pojawić się w tym dokumencie.

Firma Chargedot nie ponosi odpowiedzialności za szkody bezpośrednie, pośrednie, szczególne, uboczne lub następne jakiegokolwiek rodzaju lub typu powstałe w wyniku korzystania z niniejszego dokumentu ani za szkody uboczne lub następne wtórne powstałe w wyniku korzystania z oprogramowania lub sprzętu opisanego w niniejszym dokumencie.

 **Ostrzeżenie** – Praca z wysokim napięciem jest związana z niebezpieczeństwem śmierci. Osoby narażone na działanie wysokiego napięcia mogą doznać zatrzymania akcji serca, poparzeń lub innych poważnych obrażeń. Aby uniknąć takich obrażeń, należy sprawdzić, czy zasilanie zostało odłączone przed rozpoczęciem instalacji.

 **Ostrzeżenie** – Ze względów bezpieczeństwa zalecane jest instalowanie urządzeń w sposób uniemożliwiający przypadkowe dosięgnięcie lub dotknięcie listew zaciskowych.

Najlepszym sposobem na bezpieczną instalację jest zainstalowanie urządzenia w obudowie. Ponadto dostęp do urządzenia powinien być ograniczony przy użyciu zamka i klucza kontrolowanego przez wykwalifikowanego elektryka.

 **Ostrzeżenie** – Nie używać urządzenia niezgodnie z podanymi danymi technicznymi.

Wymagania instalacyjne – Aby spełnić wymagania dotyczące ochrony, miernik energii musi być zamontowany w obudowie o stopniu ochrony IP 51 lub wyższym, zgodnie z normą IEC 60259.

Ostrożność – Należy uważać, aby żadna ciecz nie dostała się do miernika i ładowarki EV, ponieważ może spowodować uszkodzenie urządzenia.

Usunięcie etykiet plombujących powoduje utratę gwarancji i dokładności.

Niniejsza instrukcja dotyczy następujących modeli ładowarek EV, zalecanych do połączenia ze wskazanymi modelami mierników energii:

Ładowarka do EV			Licznik energii		
Numer części Chargedot	Model	Trójfazowy lub jednofazowy	Numer części ABB	Model	Trójfazowy lub jednofazowy
6AGC082155	Terra AC W7-G5-R-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC082156	Terra AC W11-G5-R-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC082158	Terra AC W22-G5-R-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC105906	Terra AC W7-S-R-C-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC082154	Terra AC W22-S-R-C-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC082157	Terra AC W22-G5-R-C-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC081282	Terra AC W22-S-RD-MC-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118141	Terra AC W7-S-R	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118142	Terra AC-W11-S-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118143	Terra AC W22-S-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118144	Terra AC W7-G5-R	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118145	Terra AC W22-G5-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118146	Terra AC W7-S-R-C	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118147	Terra AC W22-S-R-C	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118148	Terra AC W22-S-RD-MC	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118149	Terra AC-W11-T-RD-PC	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118155	Terra AC W7-S-R	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118156	Terra AC-W11-S-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118157	Terra AC W22-S-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118158	Terra AC W7-G5-R	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118159	Terra AC W22-G5-R	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118160	Terra AC W7-S-R-C	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC118161	Terra AC W22-S-R-C	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118162	Terra AC W22-S-RD-MC	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC118163	Terra AC-W11-T-RD-PC	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128169	Terra AC W7-G5-R-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128178	Terra AC W7-G5-R-C-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128177	Terra AC W7-S-R-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128176	Terra AC W7-S-R-C-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128175	Terra AC W11-G5-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128174	Terra AC W11-S-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128173	Terra AC W22-G5-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128171	Terra AC W22-S-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy

6AGC128170	Terra AC W22-S-R-C-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128195	Terra AC E7-S-R-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128196	Terra AC E7-S-R-C-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128197	Terra AC E7-G5-R-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128198	Terra AC E7-G5-R-C-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128199	Terra AC E11-S-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128200	Terra AC E11-G5-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128201	Terra AC E22-S-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128202	Terra AC E22-S-R-C-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128203	Terra AC E22-G5-R-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Jednofazowy	2CMA100155R1000	B21 312-100	Jednofazowy
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trójfazowy	2CMA100166R1000	B23 212-100	Trójfazowy

Modele mierników energii

Do 1-fazowych ładowarek EV

Numer katalogowy ABB:

2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Do 3-fazowych ładowarek EV

Numer katalogowy ABB:

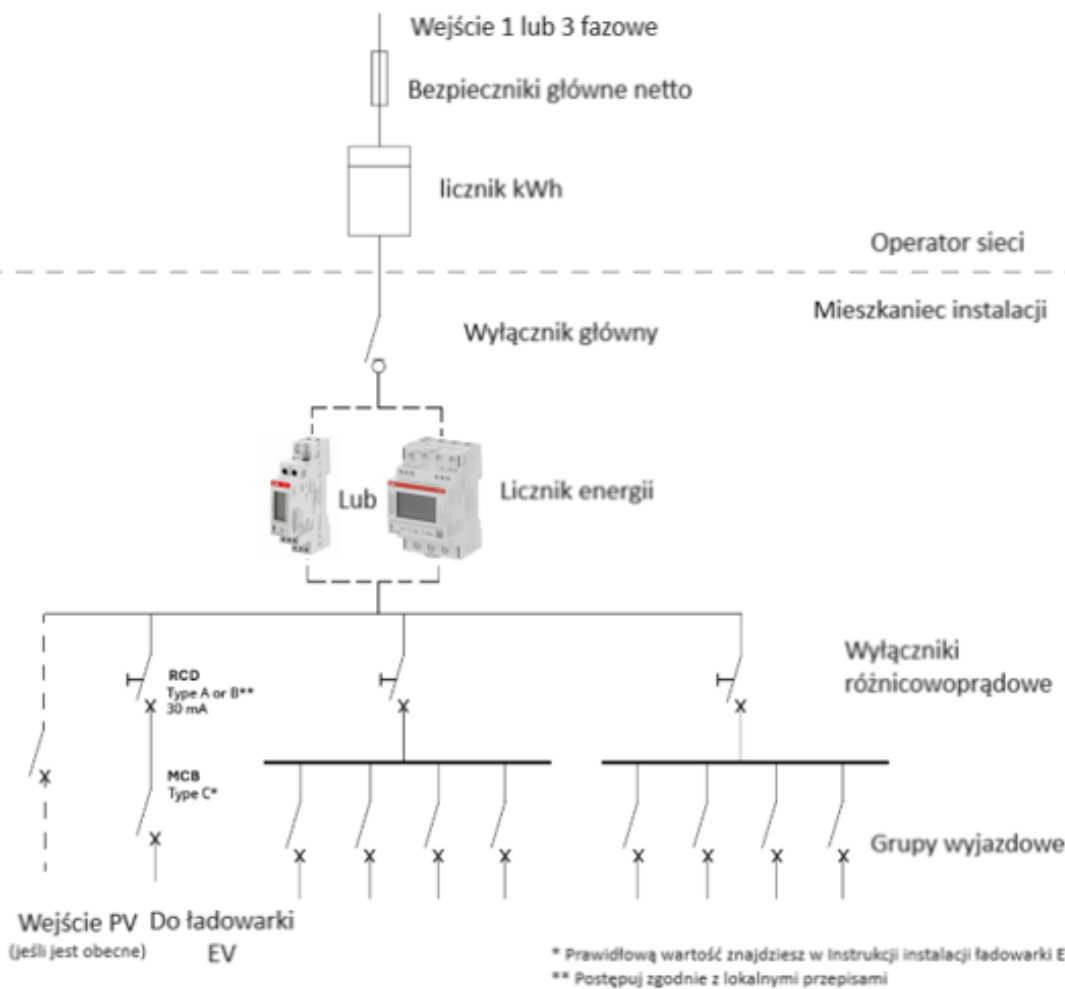
2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



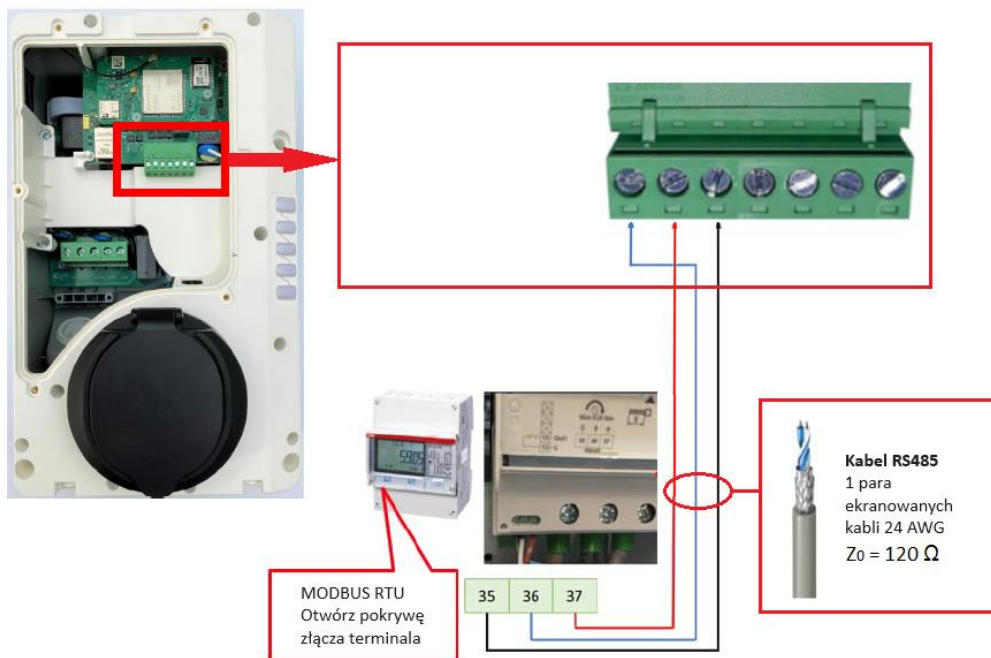
W celu mechanicznej i elektrycznej instalacji miernika energii należy skorzystać z dołączonej instrukcji instalacji (w opakowaniu miernika energii) lub instrukcji używanego miernika energii pobranej z linku *Dostępne dokumenty do pobrania* powyżej.



Główny wyłącznik służy tylko do bezpiecznego odłączania podczas instalacji. Licznik energii można umieścić w dowolnym miejscu, w którym mierzy całkowite zużycie gospodarstwa domowego – jeśli wyłącznik różnicowoprądowy może wyłączyć zasilanie, działa on również jak główny wyłącznik.

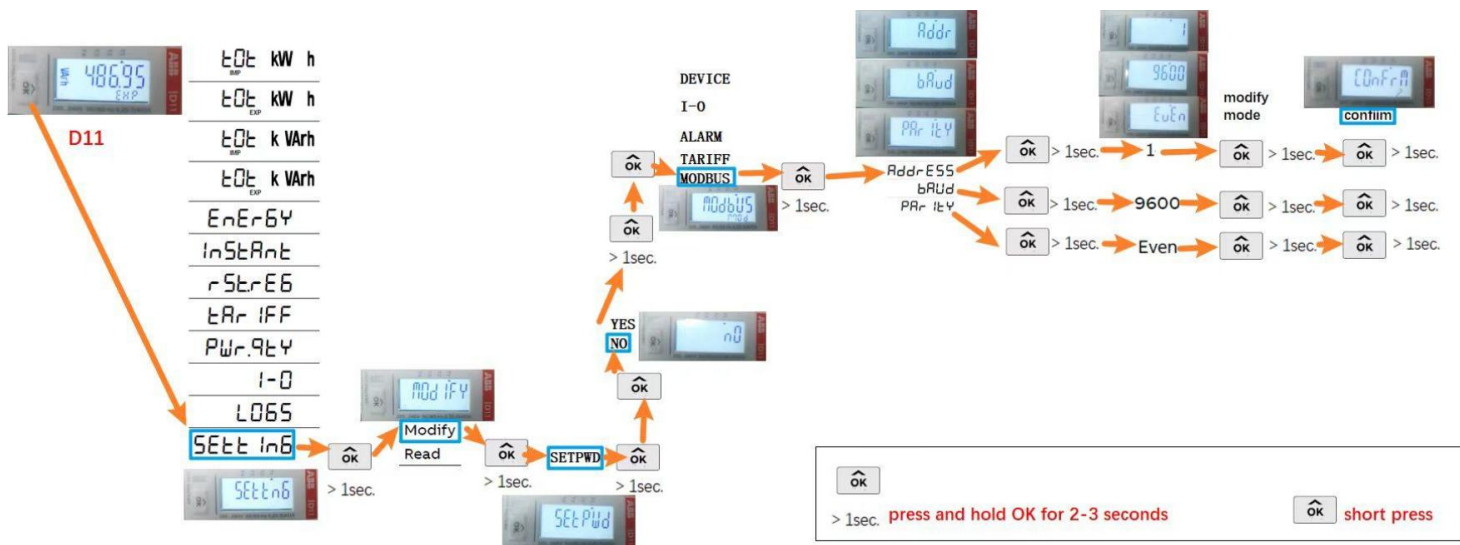
Licznik energii należy zainstalować za przełącznikiem głównym, a przed szafką rozdzielczą z wyłącznikami różnicowoprądowymi i wyłącznikami automatycznymi. Powyższy rysunek jest przykładem typowej szafki rozdzielczej (szafki instalacyjnej) w budownictwie mieszkalnym.

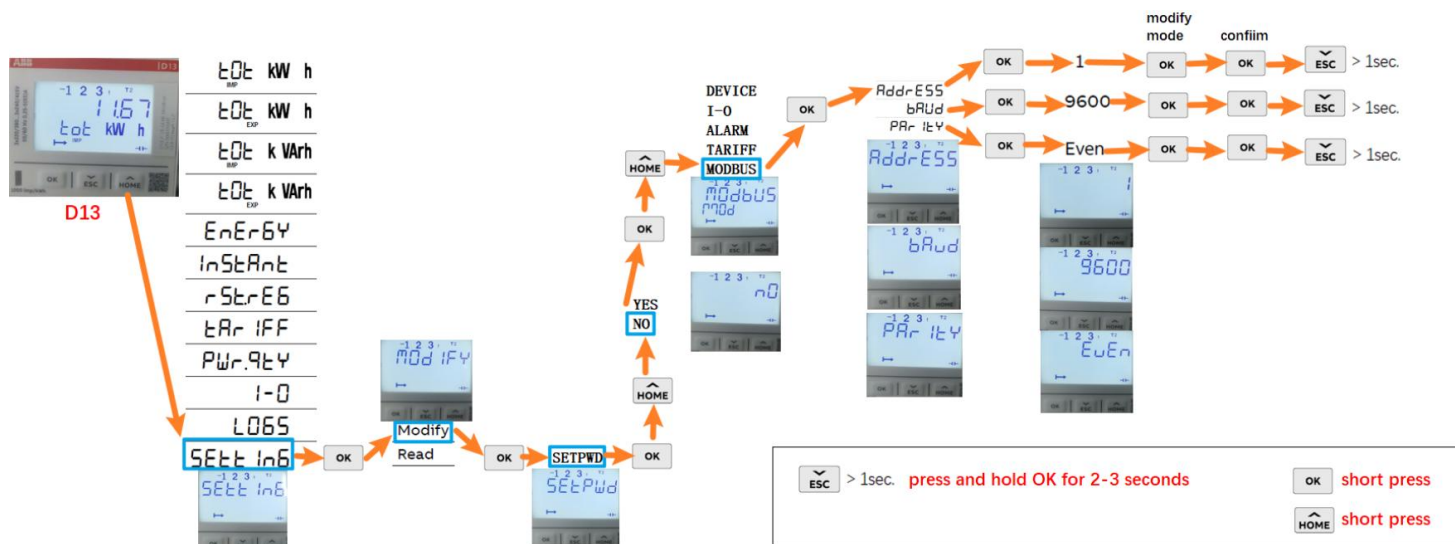
⚠ Ostrzeżenie – Miernik energii musi być zawsze chroniony bezpiecznikami po stronie dopływowej. Więcej informacji można znaleźć w instrukcjach instalacji miernika energii.



Konfiguracja miernika energii – nie wymaga zmian

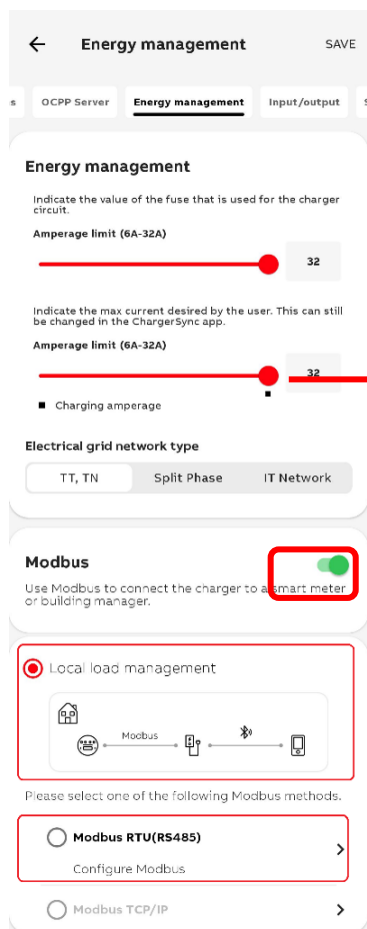
Poniższy rysunek przedstawia ustawienia domyślne miernika energii. Ustawienia te są prawidłowe dla funkcji load management i nie należy ich zmieniać.





Aplikacja rozruchowa TerraConfig – dla funkcji load management

Ogólne ustawienia ładowania EV można znaleźć w samouczku internetowym — link do witryny internetowej [Aplikacja TerraConfig — przegląd \(Chargedot.com\)](https://www.chargedot.com)

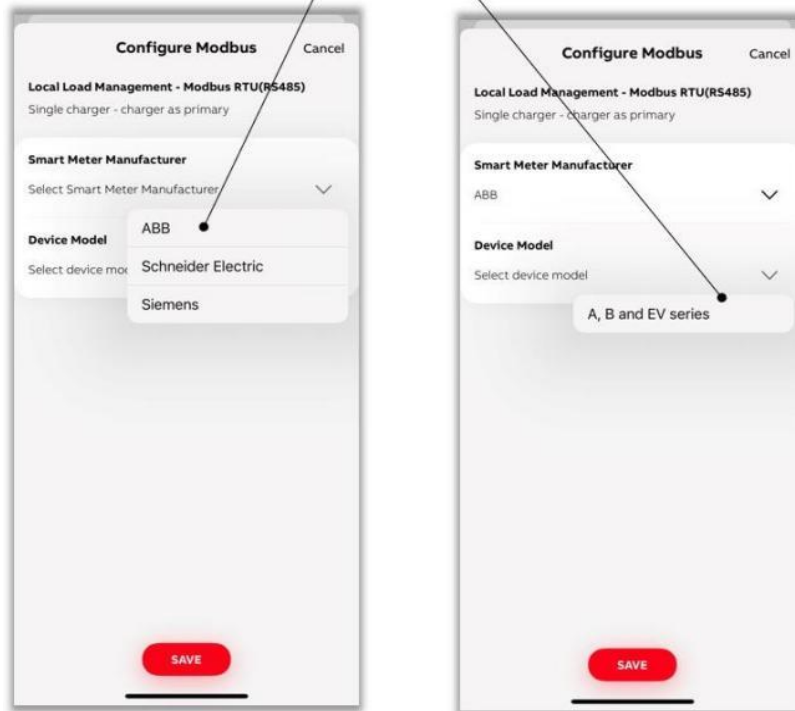


Load Management:
Wybrać opcję Local Load Management
Wybrać: RTU(RS485)

Nie ustawiaj maksymalnego prądu ustawianego przez użytkownika.

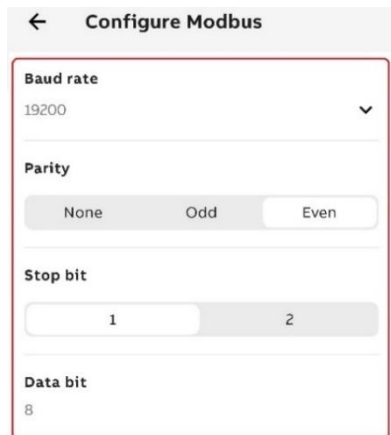
Przykład doboru
miernika ABB

Example of
selecting ABB meter



Wybrać „**ABB**” z menu rozwijanego **SmartMeter Manufacturer (Producent miernika inteligentnego)**.

Wybrać opcję prawidłowe modeli z menu rozwijanego **Device Model (Model urządzenia)**.



Configure Modbus

Baud rate: 19200

Parity: None, Odd, Even

Stop bit: 1, 2

Data bit: 8

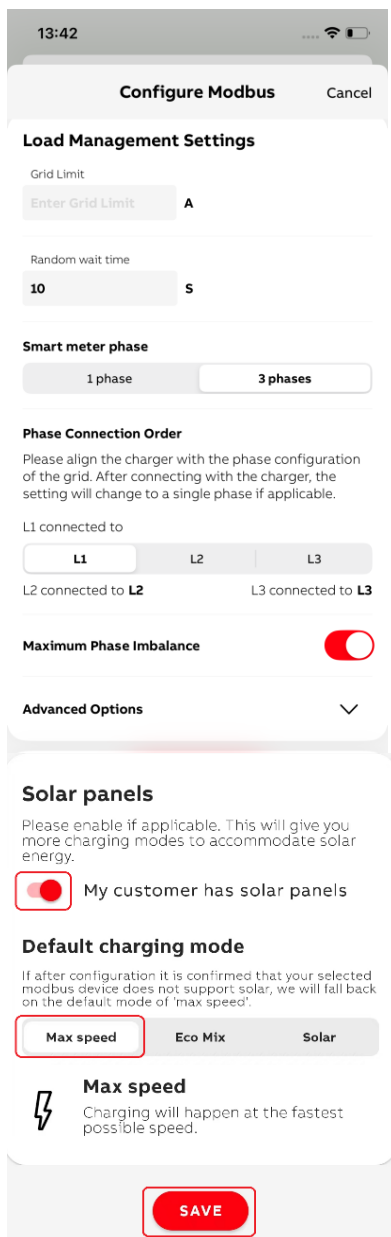
Ustawić opcję **Baud Rate (Prędkość transmisji)** na **"9600"**.

Ustaw opcję **Parity (Parzystość)** na **"Even" (Parzyste)**.

Wartość **Stop bit (Bit stopu)** musi wynosić 1, a **Data bit (Bit danych)** musi wynosić 8.

UWAGA

Miernik inteligentny i ładowarka EV powinny mieć takie same wartości.



Load Management Settings

Grid Limit: Enter Grid Limit A

Random wait time: 10 s

Smart meter phase: 1 phase, 3 phases

Phase Connection Order

Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to: L1, L2, L3

L2 connected to L2, L3 connected to L3

Maximum Phase Imbalance: ☒

Advanced Options: ☒

Solar panels

Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode

If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed, Eco Mix, Solar

Max speed

Charging will happen at the fastest possible speed.

SAVE

Grid limit (Limit sieci): maksymalny limit (w amperach) przyłącza sieciowego, do którego powinna być wykonywana funkcja równoważenia obciążenia. Przed ustawieniem tej wartości należy sprawdzić główny bezpiecznik instalacji mieszkaniowej. Ustawienie tej wartości nie powinno być wyższe niż wartość głównego bezpiecznika!



Sprawdzenie zgodności ustawień „Smart meter phase” (Faza miernika inteligentnego) i „Phase connection order” (Kolejność podłączenia faz) z konfiguracją instalacji i przepisami lokalnymi.

UWAGA:

JEŚLI obecne są panele słoneczne, należy wybrać tylko maksymalną prędkość **Nigdy nie wybieraj EcoMix lub Solar**

Nacisnąć przycisk **SAVE (ZAPISZ)**, aby zapisać ustawienia.

Zakończyć potwierdzeniem konfiguracji, aby zapisać konfigurację w ładowarce EV.

Aby sprawdzić informacje/instrukcje dotyczące ustawień zaawansowanych, należy użyć linku [Aplikacja TerraConfig — przegląd \(Chargedot.com\)](#) i przejść do sekcji Energy Management (Zarządzanie energią) / i skorzystać z kart.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is no network connection/meter connection lost



Load management

Português

Este Guia de Instalação Rápida [GIR] descreve resumidamente as etapas de instalação e de configuração mais importantes para a funcionalidade de «Load management» [gestão de carregamentos] do EV Charger [carregador de veículos elétricos]. Este GIR não substitui o manual de instalação do fabricante do EV Charger e do contador de energia, mas complementa os referidos documentos. Estão disponíveis informações mais detalhadas no manual de instalação do EV Charger e no manual de instalação do contador de energia. Este GIR deve ser utilizado por eletricitistas qualificados (instaladores) que são responsáveis pela instalação do EV Charger e do contador de energia para efeitos da funcionalidade de «Load management».

Antes de instalar a funcionalidade de «Load management», leia este GIR atentamente. Siga as instruções neste GIR. A Chargedot não se responsabiliza por quaisquer danos que possam ter sido causados pelo não cumprimento e pela execução incorreta das instruções descritas neste GIR.

Geral:



- **Aviso** - O equipamento elétrico só deve ser instalado, acedido, reparado e mantido por profissionais eletricitistas qualificados.
- A instalação elétrica deve ser projetada e construída conforme a regulamentação local e nacional, e os regulamentos de segurança e elétricos.
- Certifique-se de que o interruptor principal do armário de distribuição (Unidade Consumidora) se encontra desligado (na posição OFF), antes de iniciar os trabalhos de instalação. Realize uma verificação da tensão para garantir que a alimentação elétrica está desligada [OFF].

Isenção de Responsabilidade

A informação contida neste documento está sujeita a alterações sem aviso e não deve ser interpretada como um compromisso da Chargedot. A Chargedot não se responsabiliza por eventuais erros que possam constar no presente documento.

Em nenhuma circunstância a Chargedot será responsável por danos diretos, indiretos, especiais, acidentais ou consequentes de qualquer natureza ou tipo decorrentes da utilização deste documento, nem deverá a Chargedot ser responsabilizada por danos acidentais ou consequentes da utilização de qualquer software ou hardware descrito neste documento.

 **Aviso** – O trabalho com alta tensão é potencialmente fatal. As pessoas expostas à alta tensão podem sofrer uma paragem cardíaca, lesões nos pulmões ou outros ferimentos graves. Para evitar esses ferimentos, assegure-se de que desliga a corrente elétrica antes de iniciar a instalação.

 **Aviso** – Por razões de segurança é recomendado que o equipamento seja instalado para impedir o acesso ou toque acidental dos blocos terminais.

A solução ideal para uma instalação segura é colocar a unidade no interior de uma estrutura. Além disso, o acesso ao equipamento deve ser limitado através da utilização de uma fechadura com chave, controlada por pessoal eletricitista qualificado.

 **Aviso** – Não opere o equipamento em condições diferentes das especificadas nos dados técnicos.

Requisitos da instalação – Para que os requisitos de proteção sejam cumpridos, o contador de energia deve ser montado em armários de classe de proteção IP 51, ou superior, conforme a norma IEC 60259.

Atenção – Cuidado para não entrarem líquidos no contador de energia e no EV Charger, pois podem danificar o equipamento.

A garantia e a precisão ficam anuladas se as etiquetas de vedação forem removidas.

Este manual é aplicável aos modelos de EV Charger e recomendado para ser combinado com os modelos de contadores de energia indicados:

Carregador para VE			Medidor de energia		
Número de peça Chargedot	Modelo	Trifásico ou monofásico	Número de peça ABB	Modelo	Trifásico ou monofásico
6AGC082155	Terra AC W7-G5-R-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC082156	Terra AC W11-G5-R-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC082158	Terra AC W22-G5-R-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC105906	Terra AC W7-S-R-C-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC082154	Terra AC W22-S-R-C-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC082157	Terra AC W22-G5-R-C-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC081282	Terra AC W22-S-RD-MC-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118141	Terra AC W7-S-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118142	Terra AC-W11-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118143	Terra AC W22-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118144	Terra AC W7-G5-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118145	Terra AC W22-G5-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118146	Terra AC W7-S-R-C	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118147	Terra AC W22-S-R-C	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118148	Terra AC W22-S-RD-MC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118149	Terra AC-W11-T-RD-PC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118155	Terra AC W7-S-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118156	Terra AC-W11-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118157	Terra AC W22-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118158	Terra AC W7-G5-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118159	Terra AC W22-G5-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118160	Terra AC W7-S-R-C	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118161	Terra AC W22-S-R-C	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118162	Terra AC W22-S-RD-MC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118163	Terra AC-W11-T-RD-PC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128169	Terra AC W7-G5-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128178	Terra AC W7-G5-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128177	Terra AC W7-S-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128176	Terra AC W7-S-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128175	Terra AC W11-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128174	Terra AC W11-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128173	Terra AC W22-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico

6AGC128171	Terra AC W22-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128195	Terra AC E7-S-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128196	Terra AC E7-S-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128197	Terra AC E7-G5-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128198	Terra AC E7-G5-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128199	Terra AC E11-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128200	Terra AC E11-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128201	Terra AC E22-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128203	Terra AC E22-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico

Modelos de contador de energia

Para carregadores de veículos elétricos monofásicos

Referência ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Para carregadores de veículos elétricos trifásicos

Referência ABB: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



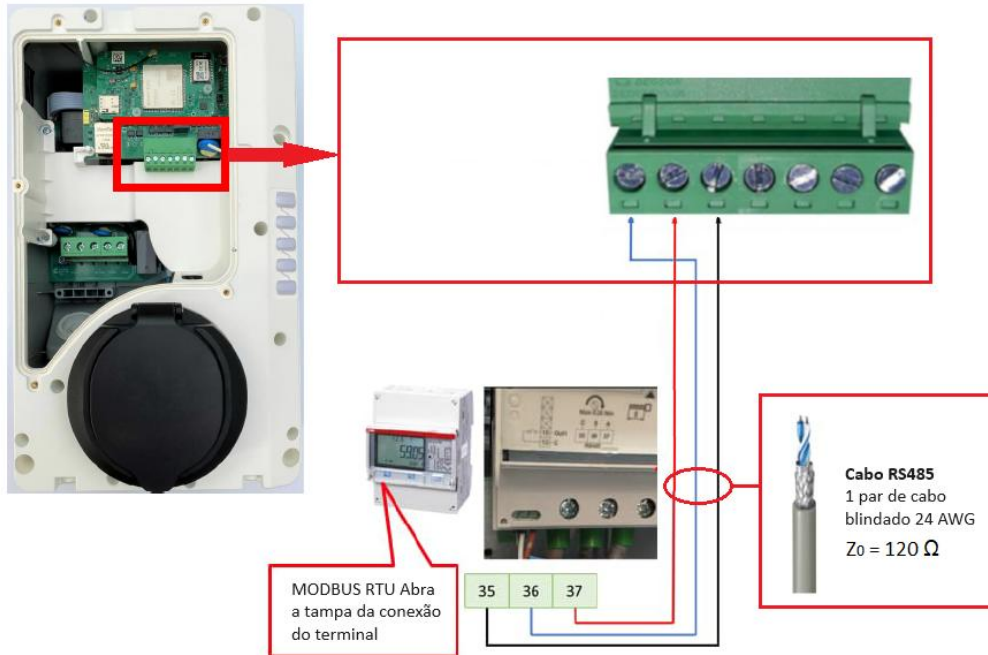
Para a instalação mecânica e elétrica do contador de energia, siga as instruções de instalação incluídas (que podem ser encontradas na embalagem do contador de energia) ou faça o download dos manuais do contador de energia usado na ligação *Downloads de documentos disponíveis*.



O interruptor principal serve apenas para a desconexão de segurança durante a instalação. O contador de energia pode ser colocado em qualquer lugar que meça o consumo total da casa – se o seu disjuntor diferencial puder desligar a energia, ele funciona também como interruptor principal.

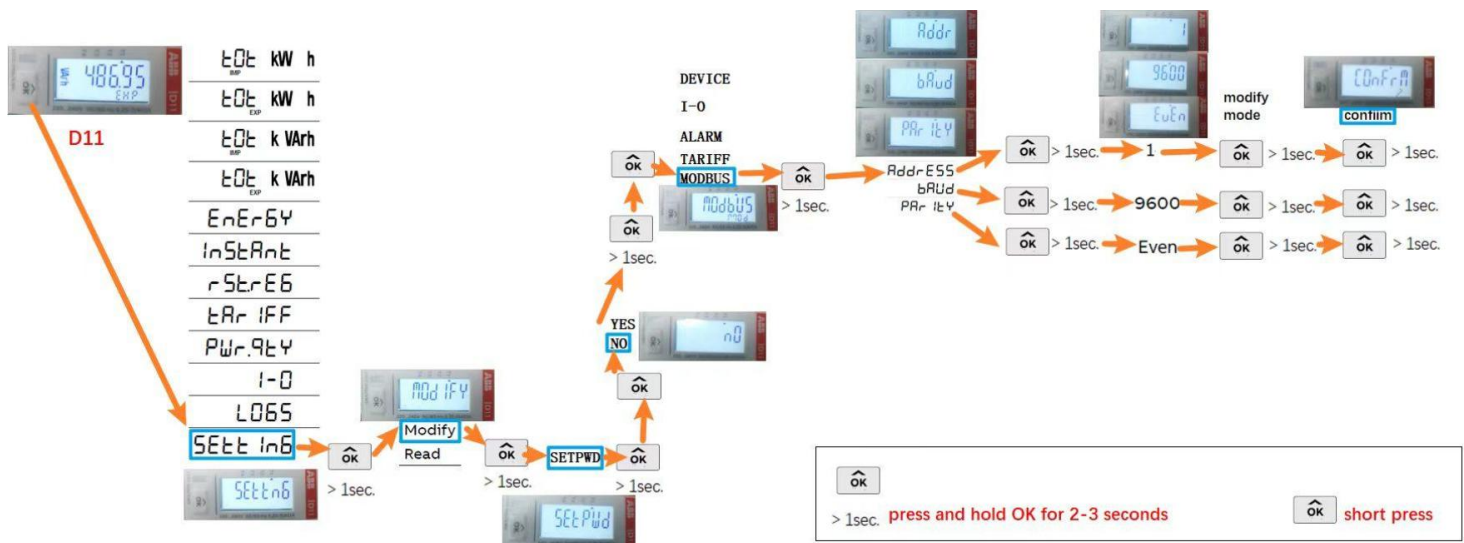
Instale o contador de energia depois do interruptor principal e antes do armário de distribuição com disjuntores diferenciais e interruptores. A figura acima é um exemplo de um armário de distribuição residencial padrão (Unidade Consumidora).

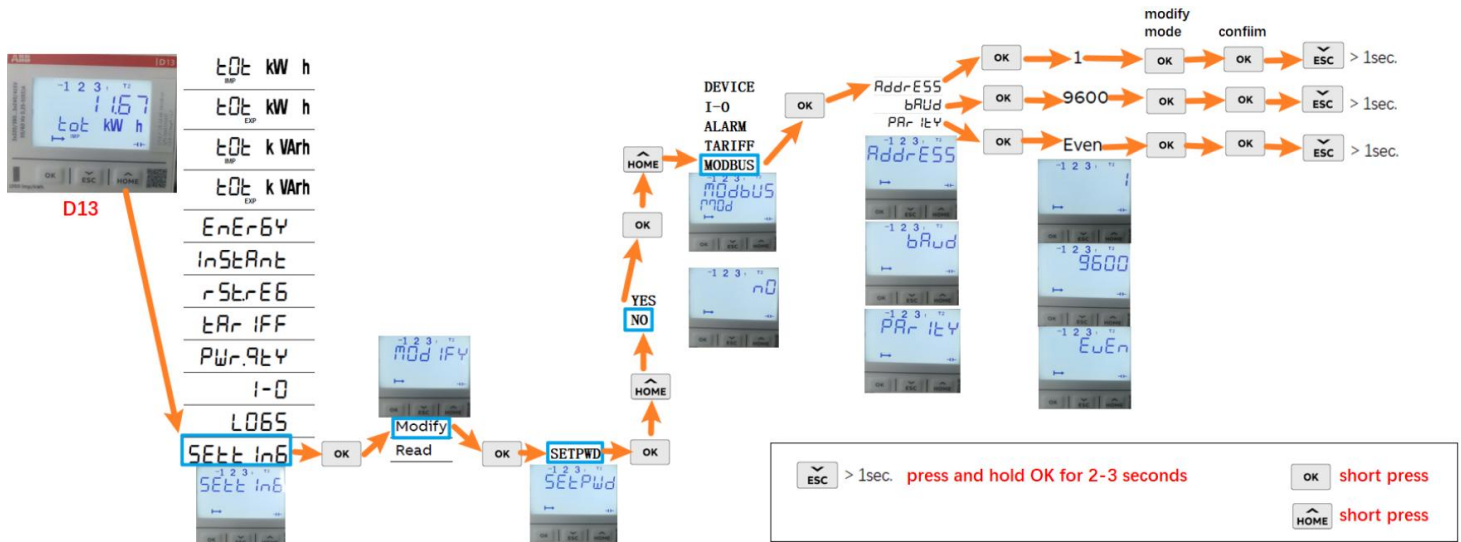
⚠️ Aviso - O contador de energia deve ser sempre protegido por fusíveis no lado de entrada. Para mais informações, consulte os manuais de instalação do contador de energia.



Configuração do contador de energia - não precisa de alterações

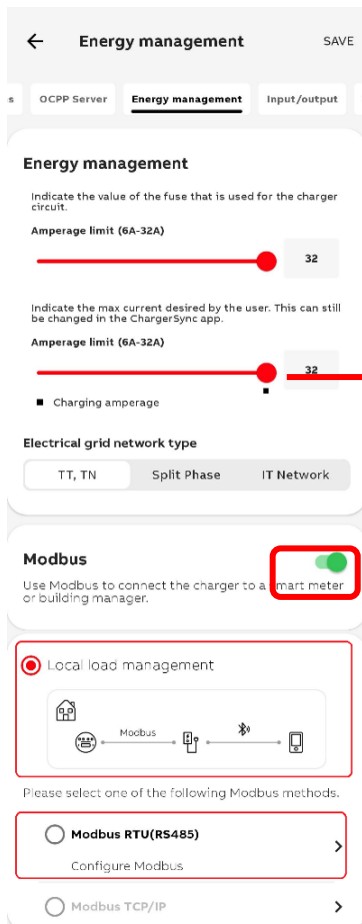
A figura abaixo mostra as configurações predefinidas de fábrica do contador de energia. Estas são as definições corretas para «Load management» e não devem ser alteradas.





App de comissionamento TerraConfig – para «Load management»

Sobre as configurações gerais de carregamento de veículos elétricos, consulte o tutorial online – ligação para o website [App TerraConfig - Descrição geral \(Chargedot.com\)](http://App TerraConfig - Descrição geral (Chargedot.com))

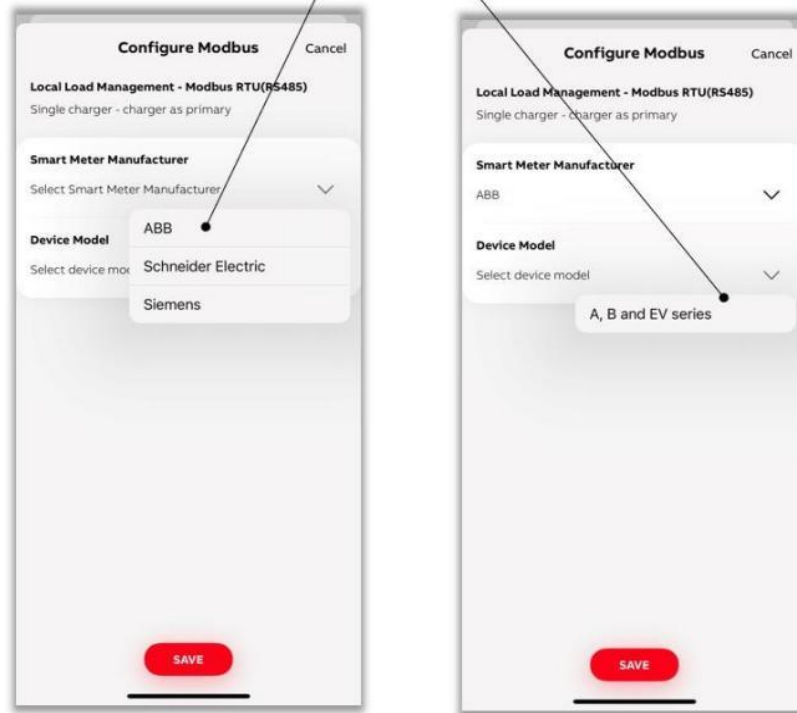


Gestão de carregamento:
Selecione Gestão de carregamento local
Selecione: RTU(RS485)

→ Não utilizar o equipamento em condições diferentes das especificadas nos dados técnicos

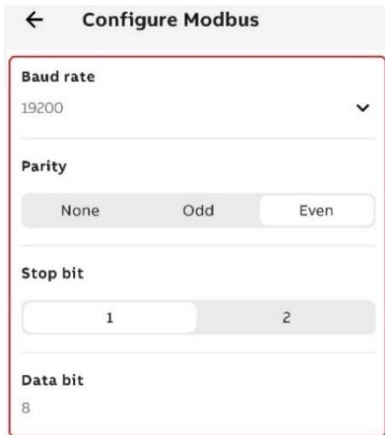
Exemplo de seleção
do medidor ABB

Example of
selecting ABB meter



Selecione '**ABB**' em **Fabricante SmartMeter** no menu suspenso.

Selecione corretas modelos em **Modelo de dispositivo** no menu suspenso.



Configure Modbus

Baud rate: 19200

Parity: None, Odd, Even

Stop bit: 1, 2

Data bit: 8

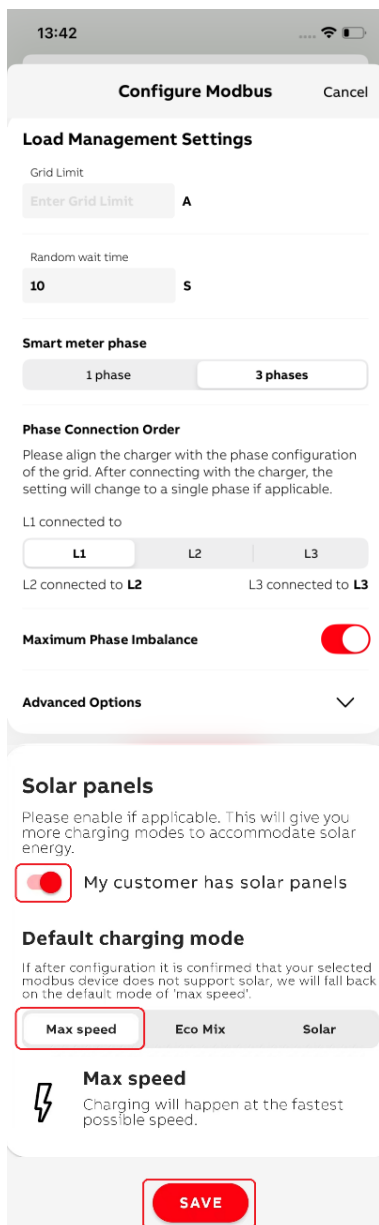
Defina a **Taxa de transmissão** para '**9600**'

Defina a **Paridade** para '**Par**'

O **Bit de paragem** deve ser 1 e o **Bit de dados** deve ser 8

NOTA

O contador Smart e o EV Charger devem ter os mesmos valores.



Configure Modbus Cancel

Load Management Settings

Grid Limit: Enter Grid Limit A

Random wait time: 10 S

Smart meter phase: 1 phase, 3 phases

Phase Connection Order

Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to: L1, L2, L3

L2 connected to: L2 L3 connected to: L3

Maximum Phase Imbalance: ☒

Advanced Options

Solar panels

Please enable if applicable. This will give you more charging modes to accommodate solar energy.

☒ My customer has solar panels

Default charging mode

If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed, Eco Mix, Solar

Max speed

Charging will happen at the fastest possible speed.

SAVE

Limite de rede: limite máximo (em amperes) de ligação à rede para a qual deve ser realizado o balanceamento de carga. Antes de definir este valor, verifique o fusível principal da instalação residencial. Este valor não deve ser superior ao do fusível principal!



Rever a "fase do contador Smart" e a "ordem de ligação da fase" para estar conforme a configuração da instalação e a regulamentação local.

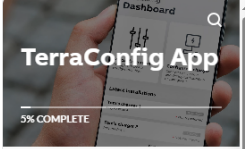
NOTA:

Se existirem painéis solares, selecionar apenas a velocidade máxima
Nunca selecionar EcoMix ou Solar

Premir a tecla **GUARDAR** para guardar as definições.

Termine com a confirmação da configuração para guardar a configuração no carregador EV.

Sobre configurações avançadas/ instruções, aceda à ligação [App TerraConfig - Descrição geral \(Chargedot.com\)](https://www.chargedot.com/app-terraconfig-description-general) aceda a Gestão de energia / e siga os separadores.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

Română

Acest Ghid de instalare rapidă (GIR) descrie pe scurt cei mai importanți pași de instalare și configurare pentru funcționalitatea Load management a încărcătorului EV. Acest GIR nu înlocuiește manualul de instalare al producătorului încărcătorului EV și al contorului de energie, ci suplimentează aceste documente. Informații suplimentare sunt disponibile în manualul de instalare a încărcătorului EV și în manualul de instalare a contorului de energie. Acest GIR este destinat utilizării de către personalul calificat în domeniul electric (instalatori) responsabil pentru instalarea încărcătorului EV și a contorului de energie în vederea activării funcționalității Load management.

Înainte de a instala funcționalitatea de Load management, parcurgeți cu atenție acest GIR. Urmăți instrucțiunile din acest GIR. Chargedot nu este responsabilă pentru niciun fel de prejudicii survenite ca urmare a nerespectării sau executării incorecte a instrucțiunilor descrise în acest GIR.

Informații generale:



- **Avertizare** - Echipamentele electrice trebuie instalate, accesate, reparate și întreținute numai de către personal calificat în domeniu.
- Instalația electrică trebuie proiectată și construită în conformitate cu legislația și cu reglementările privind siguranța și electrice locale.
- Asigurați-vă că întrerupătorul principal al dulapului de distribuție (Unitatea de consum) este trecut pe poziția OPRIT, înainte de a începe lucrările de instalare. Efectuați o verificare a tensiunii pentru a vă asigura că alimentarea electrică este oprită.

Declarație de neasumare a răspunderii

Informațiile din acest document pot fi modificate fără notificare prealabilă și nu trebuie interpretate ca un angajament din partea Chargedot. Chargedot nu își asumă nicio responsabilitate pentru eventualele erori din acest document. În niciun caz, Chargedot nu va fi răspunzătoare pentru daune directe, indirecte, speciale, incidente sau subsecvente de orice natură sau tip care decurg din utilizarea acestui document și Chargedot nu va fi răspunzătoare pentru daunele incidente sau subsecvente rezultate din utilizarea oricărui software sau hardware descris în acest document.

 **Avertizare** – Lucrul cu tensiunea înaltă poate cauza decesul. Persoanele supuse la tensiuni înalte pot suferi stop cardiac, vătămări de impact sau alte accidentări grave. Pentru a evita astfel de vătămări, asigurați-vă că deconectați sursa de alimentare înainte de a începe instalarea.

 **Avertizare** – Din motive de siguranță, se recomandă ca echipamentul să fie instalat într-un mod care să facă imposibil contactul accidental cu blocul de terminale sau atingerea acestuia. Cea mai bună soluție pentru o instalare sigură este amplasarea unității într-o incintă. În plus, accesul la echipament ar trebui limitat prin utilizarea zăvoarelor cu cheie, controlate de personal calificat în domeniul electric.

 **Avertizare** – Respectați cu strictețe specificațiile tehnice ale echipamentului la utilizare.

Cerințe de instalare – Pentru a respecta cerințele de protecție, contorul de energie trebuie montat în incinte cu clasa de protecție IP 51 sau peste, conform IEC 60259.

Atenționare – Asigurați-vă că nu permiteți pătrunderea de lichide în contor și încărcătorul EV, deoarece acesta poate deteriora echipamentul.

Îndepărtarea etichetelor de sigilare va duce la anularea garanției pentru produs și acuratețea acestuia.

Acest manual este valabil pentru modelele de încărcător EV menționate mai jos și se recomandă combinarea sa cu modelele de contoare de energie specificate:

Încărcător pentru VE			Contor de energie		
Număr piesă Chargedot	Model	Trifazat sau monofazat	Număr piesă ABB	Model	Trifazat sau monofazat
6AGC082155	Terra AC W7-G5-R-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC082156	Terra AC W11-G5-R-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC082158	Terra AC W22-G5-R-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC105906	Terra AC W7-S-R-C-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC082154	Terra AC W22-S-R-C-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC082157	Terra AC W22-G5-R-C-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC081282	Terra AC W22-S-RD-MC-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118141	Terra AC W7-S-R	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118142	Terra AC-W11-S-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118143	Terra AC W22-S-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118144	Terra AC W7-G5-R	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118145	Terra AC W22-G5-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118146	Terra AC W7-S-R-C	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118147	Terra AC W22-S-R-C	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118148	Terra AC W22-S-RD-MC	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118149	Terra AC-W11-T-RD-PC	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118155	Terra AC W7-S-R	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118156	Terra AC-W11-S-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118157	Terra AC W22-S-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118158	Terra AC W7-G5-R	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118159	Terra AC W22-G5-R	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118160	Terra AC W7-S-R-C	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC118161	Terra AC W22-S-R-C	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118162	Terra AC W22-S-RD-MC	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC118163	Terra AC-W11-T-RD-PC	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128169	Terra AC W7-G5-R-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128178	Terra AC W7-G5-R-C-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128177	Terra AC W7-S-R-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128176	Terra AC W7-S-R-C-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128175	Terra AC W11-G5-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128174	Terra AC W11-S-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128173	Terra AC W22-G5-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128171	Terra AC W22-S-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat

6AGC128861	Terra AC W7-S-RD-MC-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128195	Terra AC E7-S-R-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128196	Terra AC E7-S-R-C-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128197	Terra AC E7-G5-R-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128198	Terra AC E7-G5-R-C-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128199	Terra AC E11-S-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128200	Terra AC E11-G5-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128201	Terra AC E22-S-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128203	Terra AC E22-G5-R-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Monofazat	2CMA100155R1000	B21 312-100	Monofazat
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifazat	2CMA100166R1000	B23 212-100	Trifazat

Modele de contoare de energie

Pentru încărcătoare EV monofazate

Cod piesă ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Pentru încărcătoare EV trifazate

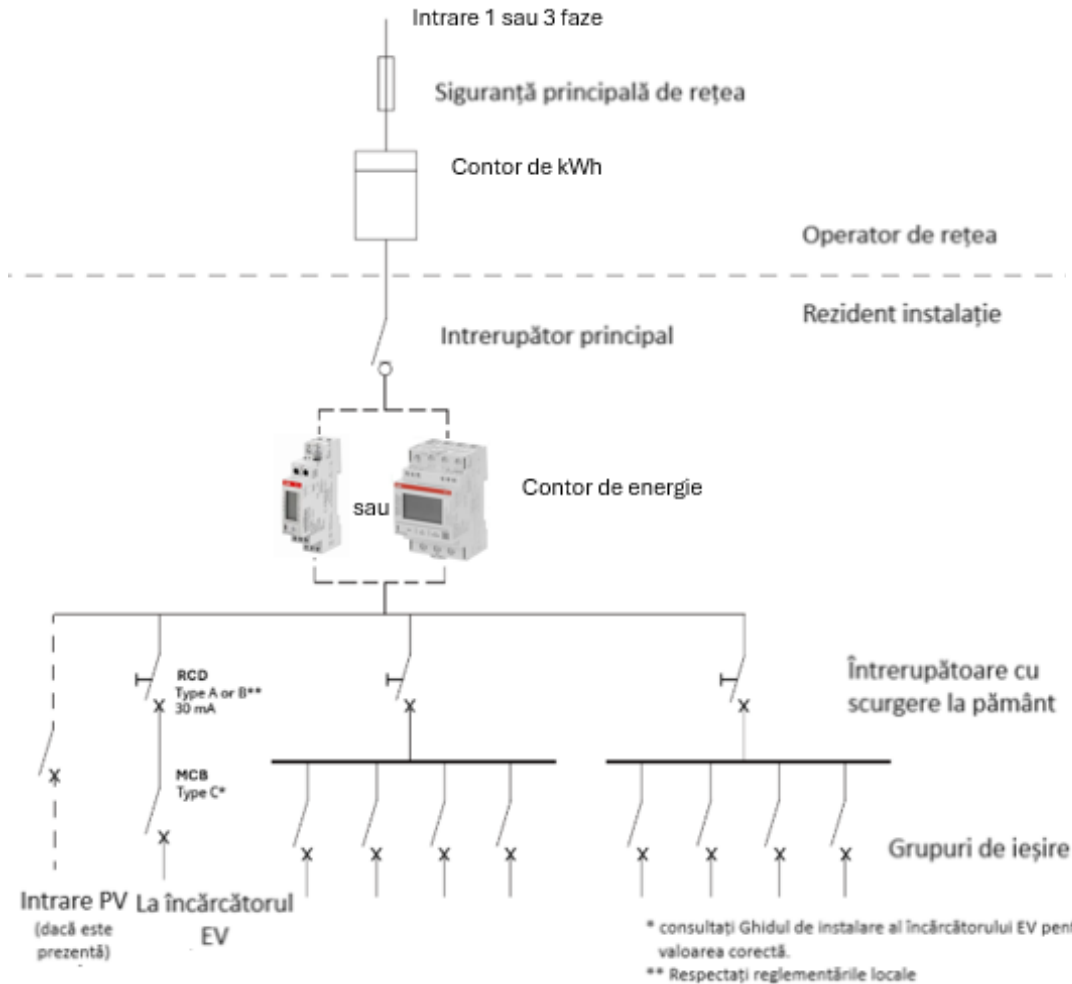
Cod piesă ABB: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



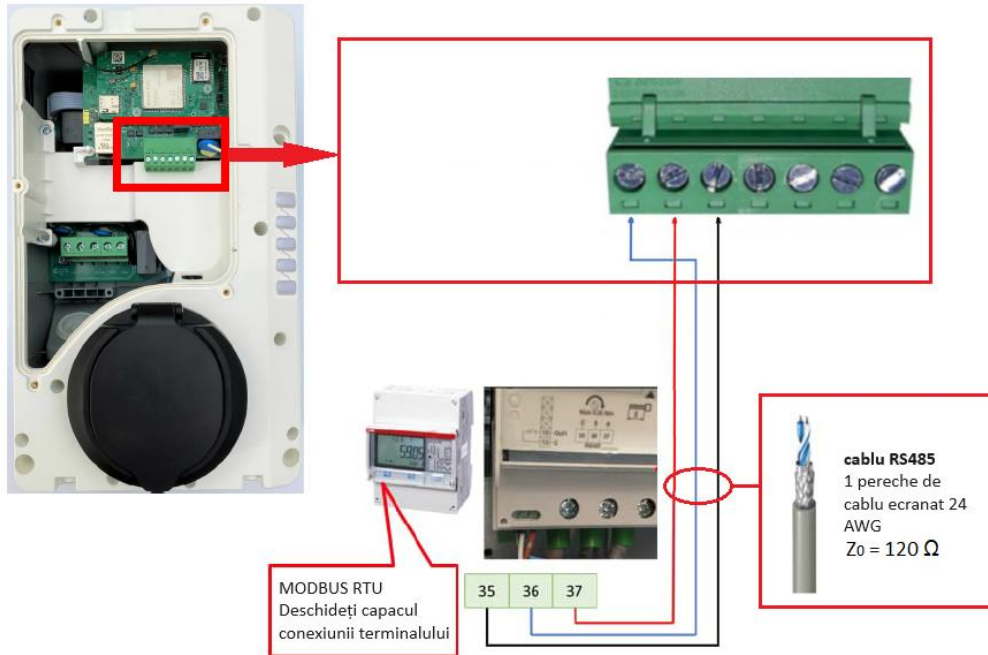
Pentru operațiile mecanice și electrice de instalare a contorului, respectați instrucțiunile de instalare incluse (furnizate împreună cu contorul de energie) sau descărcați manualele contorului de energie utilizat de la linkul *Descărcare documente disponibile* de mai sus.



Înterupătorul principal este doar pentru deconectarea de siguranță în timpul instalării. Contorul de energie poate fi plasat oriunde măsoară consumul total al locuinței – dacă înterupătorul dumneavoastră diferențial poate opri alimentarea, acesta funcționează și ca înterupător principal.

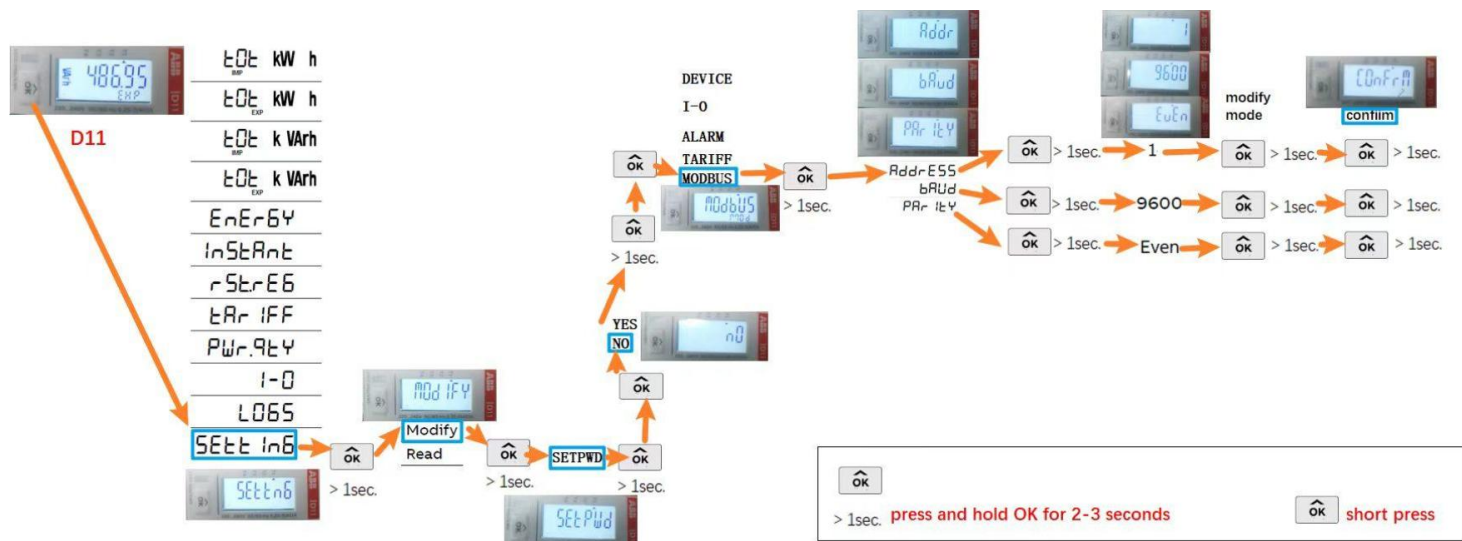
Instalați contorul de energie după înterupătorul principal și înaintea dulapului de distribuție cu înterupătoare de împământare și înterupătoare de circuit. Figura de mai sus este un exemplu de dulap de distribuție rezidențial tipic (Unitate de consum).

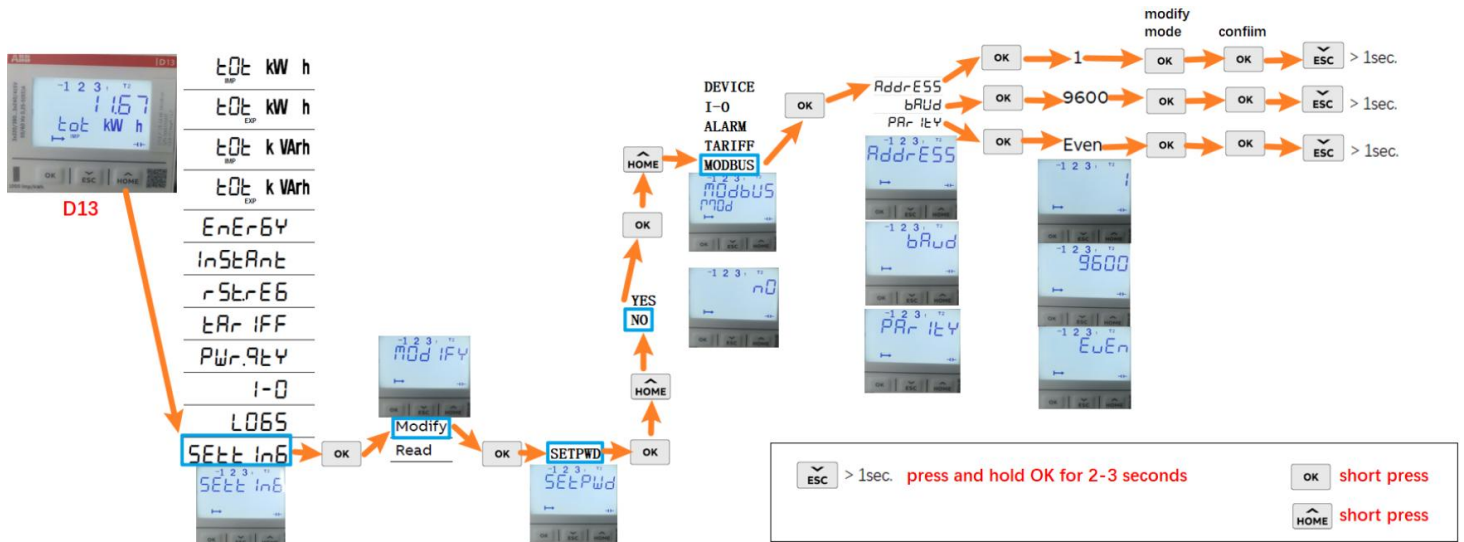
⚠ Avertizare - Contorul de energie trebuie să fie întotdeauna protejat cu siguranțe pe latura de intrare. Pentru informații suplimentare, consultați manualele de instalare ale contorului de energie.



Configurația contorului de energie – nu necesită modificări

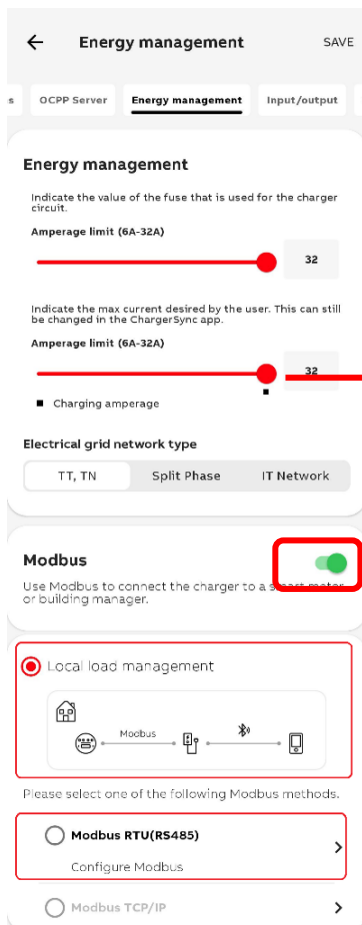
Figura de mai jos prezintă setările implicite din fabrică ale contorului de energie. Acestea sunt setările corecte pentru funcționalitatea de Load management și nu trebuie modificate.





Aplicația de punere în funcțiune TerraConfig – pentru funcționalitatea de Load management

Pentru setările generale de încărcare EV, consultați tutorialul online – link către site-ul web [Aplicația TerraConfig - Prezentare generală \(Chargedot.com\)](http://Aplicația TerraConfig - Prezentare generală (Chargedot.com))

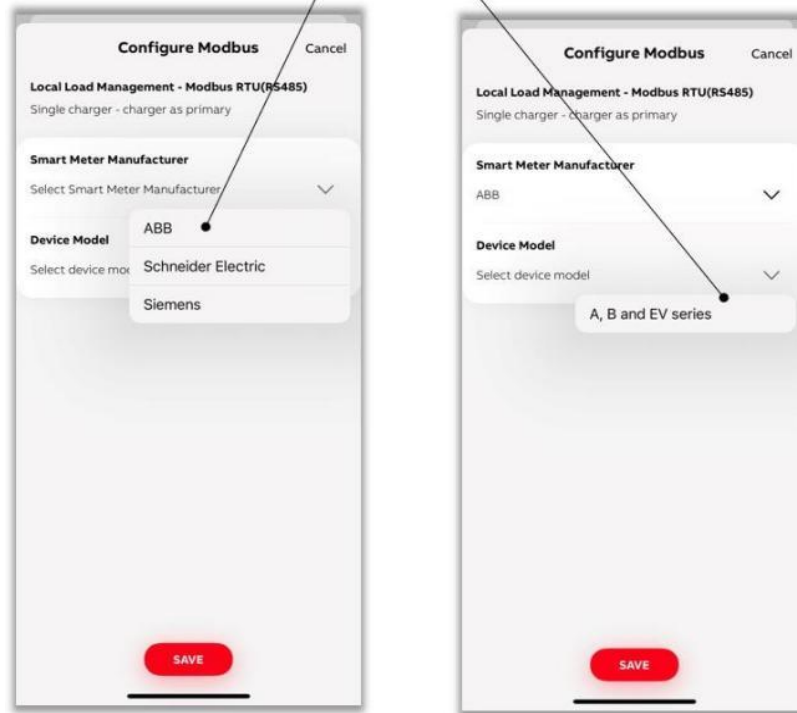


Load management:
 Selectați Local Load Management
 Selectați: RTU(RS485)

Nu setați curentul maxim setabil de utilizator

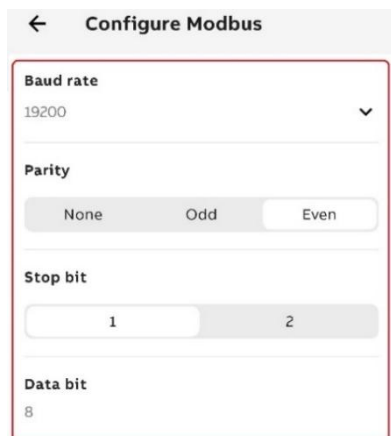
Exemplu de selectare a contorului ABB

Example of selecting ABB meter



Selectați „**ABB**” în meniul derulant **Producator SmartMeter**.

Selectați corecte modelele în meniul derulant **Model dispozitiv**.



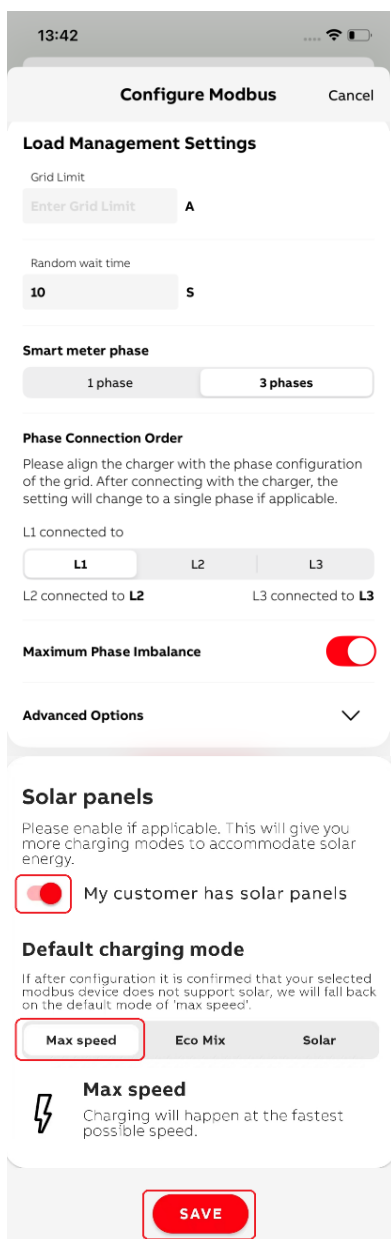
Setați **Rata de transfer** la **"9600"**

Setați **Paritate** la **"Par"**

Valoarea pentru **Bit oprire** trebuie să fie 1 și cea pentru **Bit date** trebuie să fie 8

OBS.:

Contorul inteligent și încărcătorul EV ar trebui să aibă aceleași valori.



Limită rețea: limita maximă (în amperi) a conexiunii la rețea pentru care trebuie efectuat bilanțul de sarcini. Înainte de a seta această valoare, verificați siguranța principală a instalației rezidențiale. Această valoare nu trebuie să o depășească pe cea a siguranței principale!



Pentru parcurgerea informațiilor din „Fază contor inteligent” și din „Ordine conectare faze” în vederea asigurării conformității lor cu configurația de instalare și cu reglementările locale.

OBS.:

Dacă există panouri solare, selectați numai viteza maximă

Nu selectați niciodată EcoMix sau Solar

Apăsați butonul **SALVARE** pentru a memora setările.

Încheiați cu confirmarea configurației pentru a o memora pe încărcătorul EV.

Pentru setări/instrucțiuni avansate, accesați linkul [Aplicația TerraConfig - Prezentare generală \(Chargedot.com\)](https://www.chargedot.com/ro/terraconfig), deschideți secțiunea Gestionarea energiei / și apoi diferitele file disponibile.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**



Load management

slovenský

Táto stručná inštalačná príručka (SIP) stručne popisuje najdôležitejšie kroky inštalácie a konfigurácie funkcie riadenia záťaže nabíjačky elektrického vozidla (EV). Táto SIP nenahrádza návod na inštaláciu výrobcu nabíjačky EV a elektromera, ale slúži ako doplnok týmto dokumentom. Podrobnejšie informácie sú dostupné v návode na inštaláciu nabíjačky EV a v návode na inštaláciu elektromera. Táto SIP je určená na použitie kvalifikovanými elektrikármi (inštalatérmi), ktorí sú zodpovední za inštaláciu nabíjačky EV a elektromera na účely funkcie riadenia záťaže.

Pred inštaláciou funkcie riadenia záťaže si pozorne a dôkladne prečítajte túto SIP. Postupujte podľa pokynov v tejto SIP. Spoločnosť Chargedot nezodpovedá za žiadne škody, ktoré boli spôsobené nedodržaním alebo nesprávnym dodržaním a vykonaním pokynov popísaných v tejto SIP.

Všeobecné informácie:



- **Výstraha** – Elektrické zariadenie smie inštalovať, sprístupňovať, servisovať a udržiavať iba kvalifikovaný elektrotechnický personál.
- Elektrická inštalácia by mala byť navrhnutá a vyrobená v súlade s miestnymi zákonmi, bezpečnostnými a elektrickými predpismi.
- Pred začatím inštalačných prác sa uistite, že hlavný vypínač rozvodnej skrine (spotrebiteľskej jednotky) je vo vypnutej polohe. Vykonajte kontrolu napätia, aby ste sa uistili, že elektrické napájanie je vypnuté.

Vyhlásenie o odmietnutí zodpovednosti

Informácie v tomto dokumente sa môžu zmeniť bez upozornenia a nemali by sa chápať ako záväzok spoločnosti Chargedot. Spoločnosť Chargedot nepreberá žiadnu zodpovednosť za chyby, ktoré sa môžu objaviť v tomto dokumente.

Spoločnosť Chargedot v žiadnom prípade nezodpovedá za priame, nepriame, špeciálne, náhodné ani následné škody žiadneho charakteru ani druhu vyplývajúce z použitia tohto dokumentu, a spoločnosť Chargedot nezodpovedá ani za náhodné ani následné škody, vyplývajúce z používania akéhokoľvek softvéru alebo hardvéru opísaného v tomto dokumente.

⚠ Výstraha – Práca s vysokým napätím je potenciálne smrteľná. U osôb vystavených vysokému napätiu môže dôjsť k zástave srdca, popáleninám alebo iným ťažkým zraneniam. Pred začatím inštalácie odpojte napájanie, aby sa predišlo týmto zraneniam.

⚠ Výstraha – Z bezpečnostných dôvodov sa odporúča, aby sa zariadenie nainštalovalo tak, aby nebolo možné náhodne dosiahnuť na svorkovnice alebo sa ich dotknúť.

Najlepší spôsob, ako zaistiť bezpečnú inštaláciu, je nainštalovať jednotku do ochranného krytu. Okrem toho prístup k zariadeniu by mal byť obmedzený použitím zámku a kľúča, ktorý bude kontrolovať kvalifikovaný elektrikár.

⚠ Výstraha – Zariadenie nepoužívajte mimo špecifikovaných technických údajov.

Požiadavky na inštaláciu – Splnenie požiadaviek ochrany vyžaduje, aby bol elektromer namontovaný v kryte s triedou ochrany IP 51 alebo lepšou v súlade s normou IEC 60259.

Upozornenie – Dávajte pozor, aby sa do merača a nabíjačky EV nedostala žiadna kvapalina, pretože by mohla poškodiť zariadenie.

V prípade odstránenia tesniacich štítkov zaniká záruka na presnosť.

Táto príručka platí pre nasledujúce modely nabíjačiek EV a odporúča sa ju kombinovať s uvedenými modelmi elektromerov:

Nabíjačka pre EV			Energetický merač		
Chargedot číslo dielu	Model	Trojfázový alebo jednofázový	ABB číslo dielu	Model	Trojfázový alebo jednofázový
6AGC082155	Terra AC W7-G5-R-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC082156	Terra AC W11-G5-R-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC082158	Terra AC W22-G5-R-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC105906	Terra AC W7-S-R-C-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC082154	Terra AC W22-S-R-C-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC082157	Terra AC W22-G5-R-C-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC081282	Terra AC W22-S-RD-MC-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118141	Terra AC W7-S-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118142	Terra AC-W11-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118143	Terra AC W22-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118144	Terra AC W7-G5-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118145	Terra AC W22-G5-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118146	Terra AC W7-S-R-C	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118147	Terra AC W22-S-R-C	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118148	Terra AC W22-S-RD-MC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118149	Terra AC-W11-T-RD-PC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118155	Terra AC W7-S-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118156	Terra AC-W11-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118157	Terra AC W22-S-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118158	Terra AC W7-G5-R	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118159	Terra AC W22-G5-R	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118160	Terra AC W7-S-R-C	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC118161	Terra AC W22-S-R-C	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118162	Terra AC W22-S-RD-MC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC118163	Terra AC-W11-T-RD-PC	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128169	Terra AC W7-G5-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128178	Terra AC W7-G5-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128177	Terra AC W7-S-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128176	Terra AC W7-S-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128175	Terra AC W11-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128174	Terra AC W11-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128173	Terra AC W22-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128171	Terra AC W22-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128170	Terra AC W22-S-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový

6AGC128861	Terra AC W7-S-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128195	Terra AC E7-S-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128196	Terra AC E7-S-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128197	Terra AC E7-G5-R-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128198	Terra AC E7-G5-R-C-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128199	Terra AC E11-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128200	Terra AC E11-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128201	Terra AC E22-S-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128202	Terra AC E22-S-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128203	Terra AC E22-G5-R-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Jednofázový	2CMA100155R1000	B21 312-100	Jednofázový
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trojfázový	2CMA100166R1000	B23 212-100	Trojfázový

Modely elektromerov

1-fázové nabíjačky EV

Katalógové číslo dielu ABB:

2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3-fázové nabíjačky EV

Katalógové číslo dielu ABB:

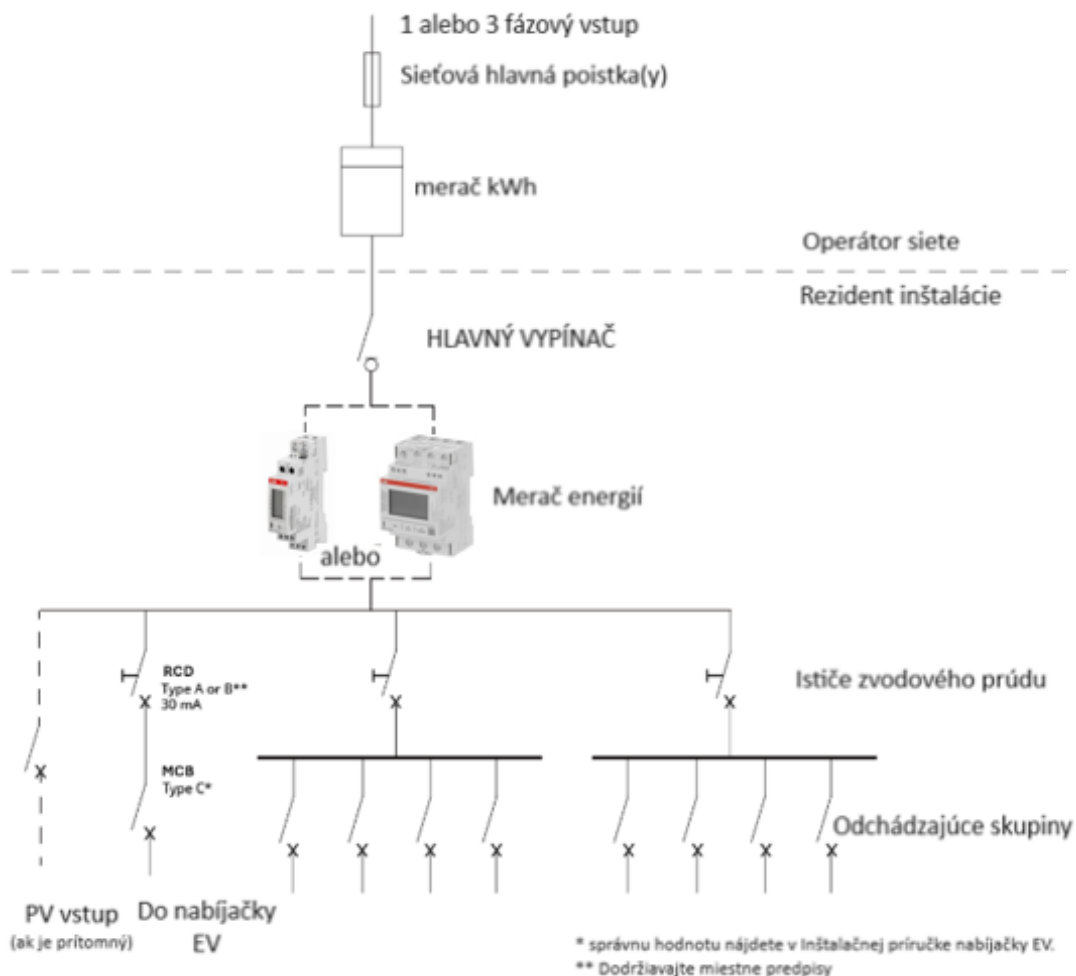
2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Pri mechanickej a elektrickej inštalácii elektromera použite priložený návod na inštaláciu (nájdete ho v balení elektromera) alebo si stiahnite návody k použitému elektromeru pomocou vyššie uvedeného prepojenia *Dostupné dokumenty na stiahnutie*.

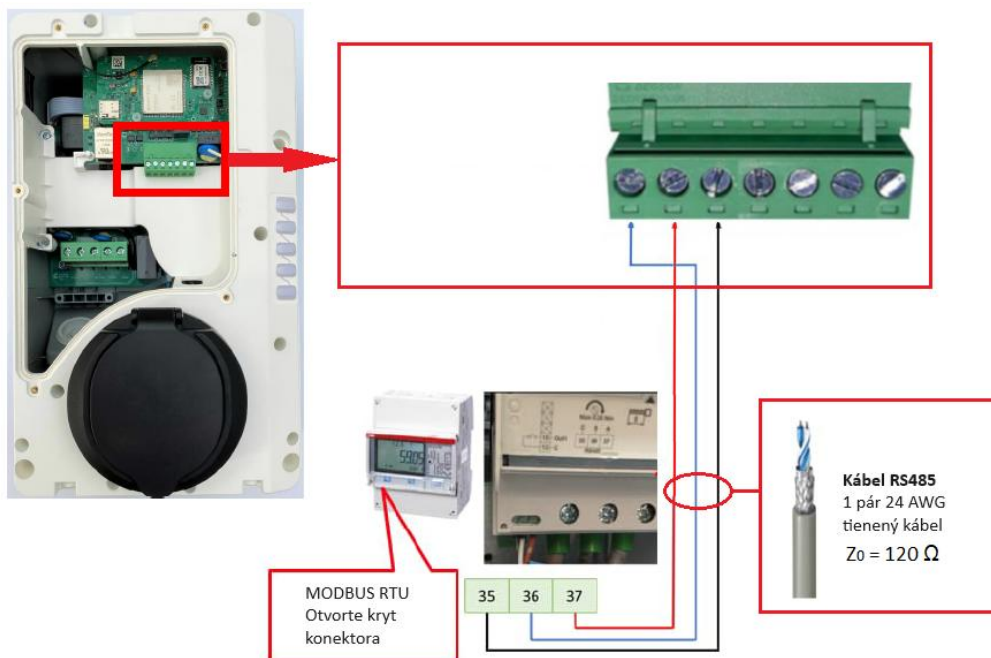


Hlavný vypínač slúži len na bezpečné odpojenie počas inštalácie. Energetický merač možno umiestniť kdekoľvek, kde meria celkovú spotrebu domácnosti – ak váš prúdový chránič dokáže vypnúť napájanie, funguje aj ako hlavný vypínač.

Elektromer nainštalujte za hlavný vypínač a pred rozvodnú skriňu s ističmi zvodového uzemnenia a ostatnými ističmi. Vyššie uvedený obrázok je príkladom typickej rozvodnej skrine bytovej jednotky (spotrebiteľskej jednotky).

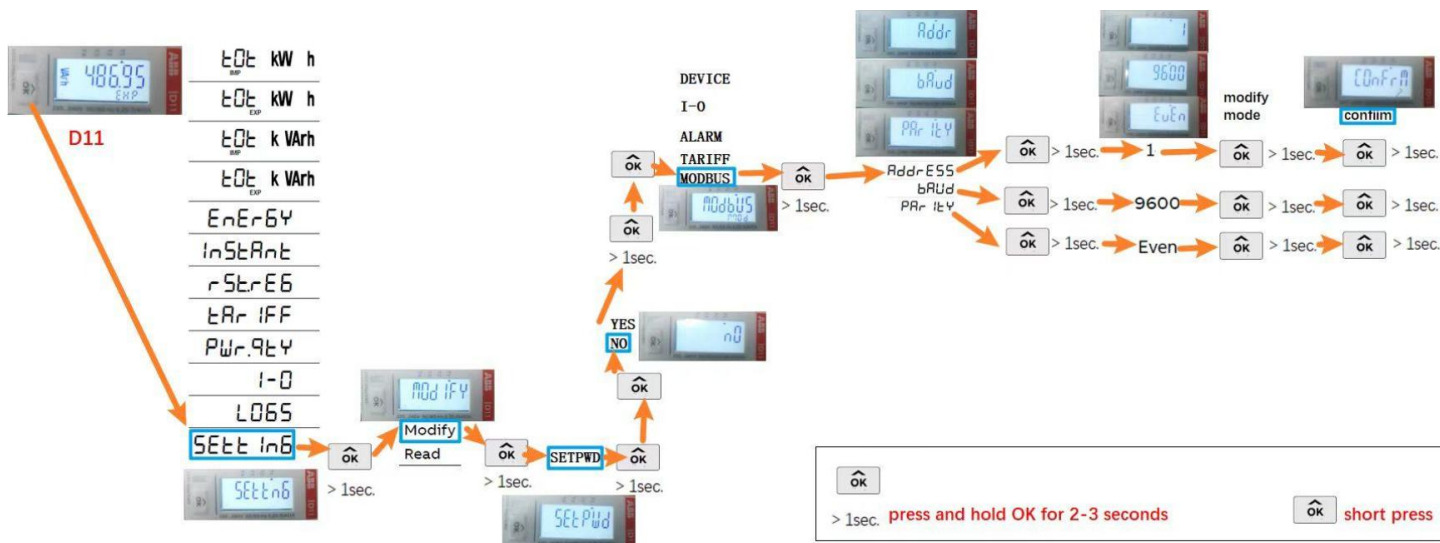


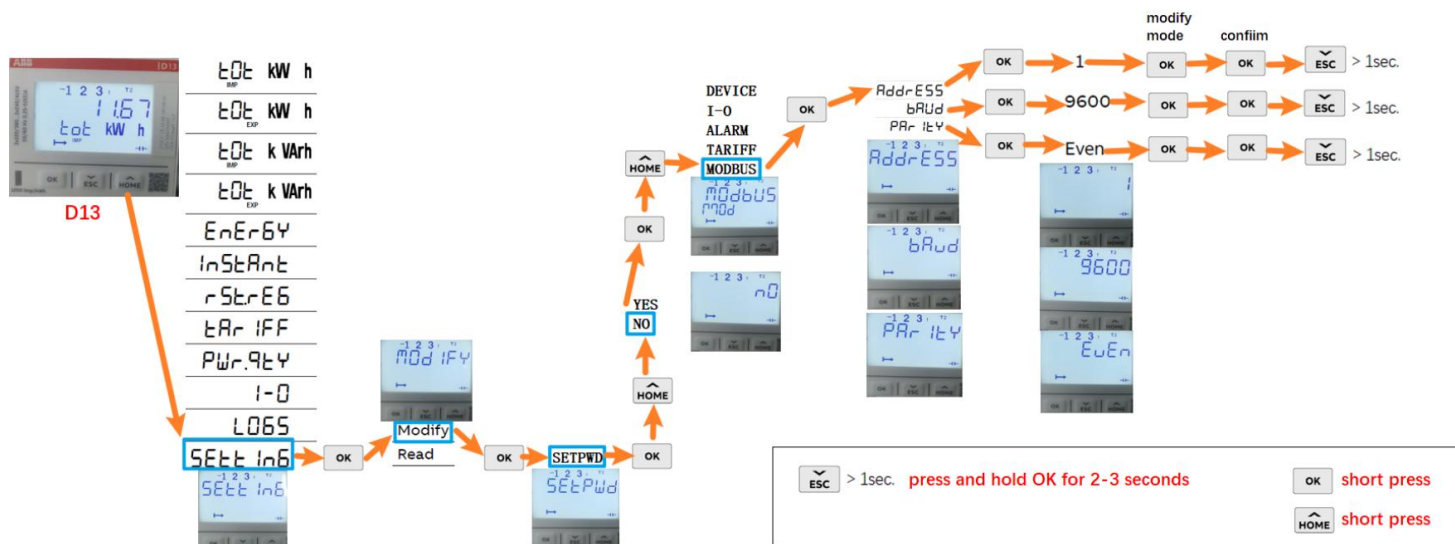
Výstraha – Elektromer musí byť vždy chránený poistkami na vstupnej strane. Ďalšie informácie nájdete v návode na inštaláciu elektromera.



Konfigurácia elektromera – nie je potrebná žiadna zmena

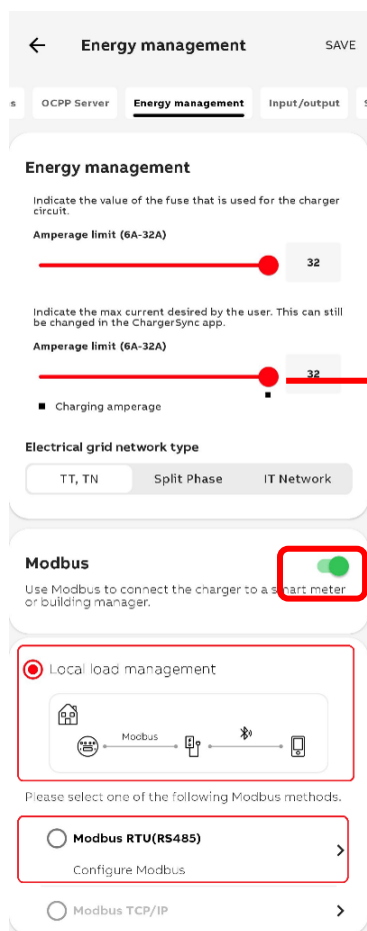
Nižšie uvedený obrázok zobrazuje predvolené výrobné nastavenia elektromera. Sú na ňom uvedené správne nastavenia na riadenie záťaže (Load Management)a nemali by sa meniť.





Aplikácia TerraConfig na uvedenie do prevádzky – na riadenie záťaže (Load Management)

Všeobecné nastavenia nabíjania EV nájdete v online návode – prepojenie na webovú lokalitu [Aplikácia TerraConfig – prehľad \(Chargedot.com\)](https://www.chargedot.com)

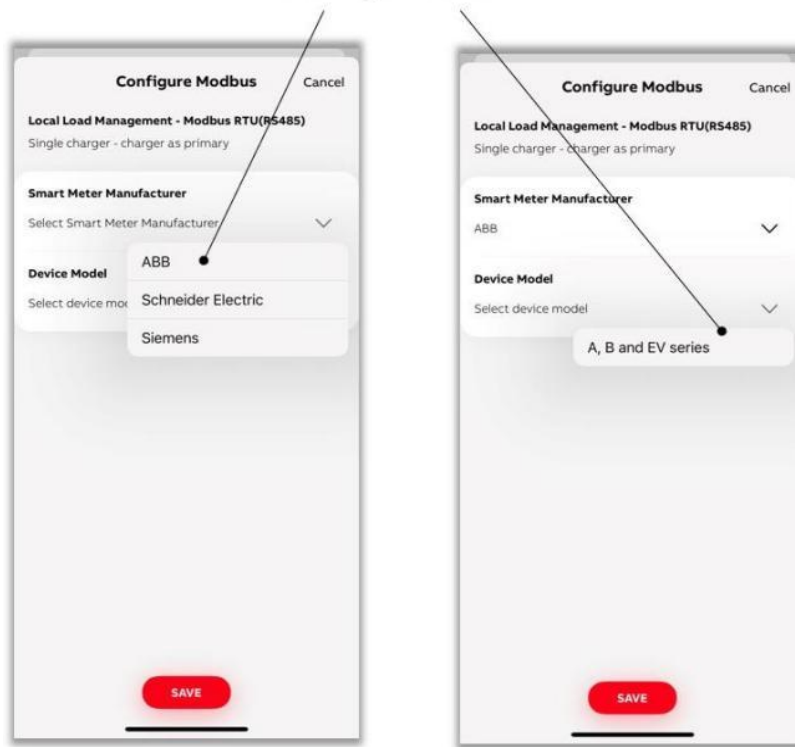


Riadenie záťaže (Load Management):
Vyberte riadenie lokálnej záťaže (Local Load Management)
Vyberte: RTU (RS485)

Nenastavujte maximálny prúd nastaviteľný používateľom

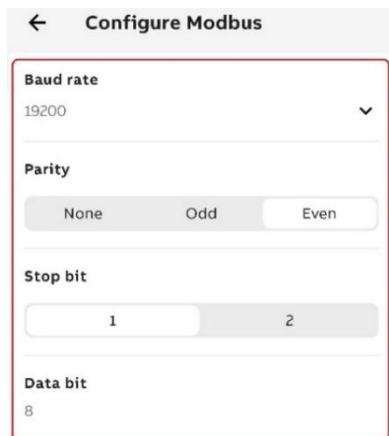
Príklad výberu merača ABB

Example of selecting ABB meter



Vyberte „**ABB**“ v rozbaľovacej ponuke **SmartMeter Manufacturer** (Výrobca inteligentného merača).

V rozbaľovacej ponuke **Device Model** (Model zariadenia) vyberte správne modely.



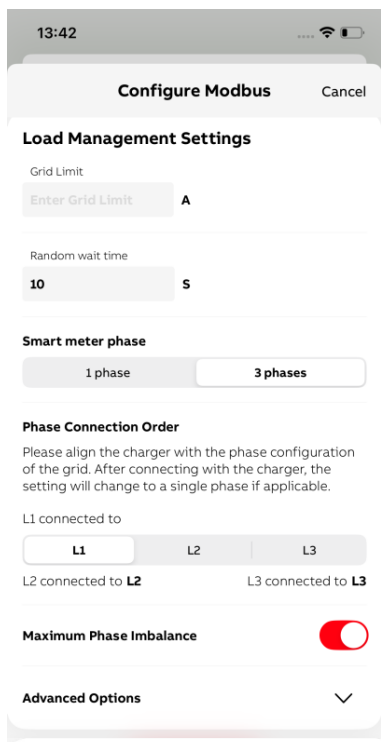
Nastavte položku **Baud Rate**(Prenosová rýchlosť) na **"9600"**

Nastavte položku **Parity** (Parita) na možnosť **„Even“** (Párna)

Položka **Stop bit** (Zastavovací bit) musí byť 1 a **Data bit** (Dátový bit) musí byť 8

POZNÁMKA:

Inteligentný merač a nabíjačka EV by mali mať rovnaké hodnoty.



Grid limit (Limit siete): maximálny limit (v ampéroch) sieťového pripojenia, pre ktoré by sa malo vykonať vyrovňavanie záťaže. Pred nastavením tejto hodnoty skontrolujte hlavnú poistku inštalácie bytovej jednotky. Táto hodnota by sa nemala nastaviť na vyššiu hodnotu ako hlavná poistka!



Skontrolujte položky „Smart meter phase“ (Fáza inteligentného merača) a „Phase connection order“ (Poradie fázového pripojenia), aby boli v súlade s nastavením inštalácie a miestnymi predpismi.

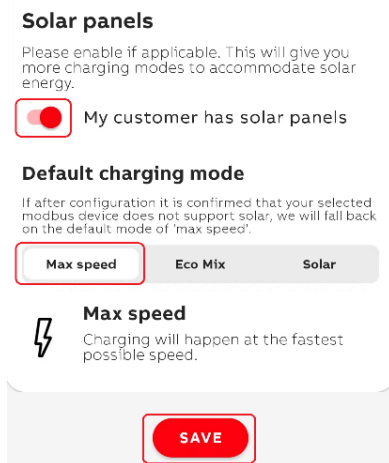
POZNÁMKA:

AK sú prítomné solárne panely, vyberte iba maximálnu rýchlosť

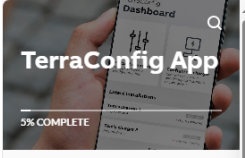
Nikdy nevyberajte EcoMix alebo Solar

Stlačte tlačidlo **SAVE** (Uložiť) na uloženie nastavení.

Ak chcete uložiť konfiguráciu do nabíjačky EV, proces ukončíte potvrdením konfigurácie.



Informácie o rozšírených nastaveniach/pokynoch nájdete pomocou prepojenia [Aplikácia TerraConfig – prehľad \(Chargedot.com\)](#), kde prejdite do položky Energy management (Riadenie energie)/ a postupujte podľa informácií na daných kartách.



- Onboarding to TerraConfig ☐
- Commissioning a charger ☐
- Select & connect a charger ☐
- Configure settings ☐
- Firmware update ☐
- Network connection ☐
- OCCP server - External backoffice ☐
- Energy management ☒**
- Input/Output ☐
- Charging RFID cards ☐

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.  Maximum delta (in Ampere) between two separate phases that is to be pursued → Max Phase Imbalance Limit after which charger will react by decreasing the power output by a significant amount → Upper Limit Limit after which charger will react by decreasing the power output by a small amount → Lower Limit Limit after which charger will react by increasing the power output by a small amount → Lower Limit Charger output limit when there is no network connection/meter connection lost → fallback Limit			

Load management

Slovenščina

Ta vodič za hitro namestitev na kratko opisuje najpomembnejše korake za namestitev in konfiguracijo funkcije load management polnilnika električnih vozil. Vodič ne nadomešča proizvajalčevega priročnika za namestitev polnilnika električnih vozil in merilnika energije, temveč te dokumente zgolj dopolnjuje. Podrobnejše informacije so na voljo v priročniku za namestitev polnilnika električnih vozil in v priročniku za namestitev merilnika energije. Ta vodič lahko uporabljajo samo usposobljene osebe za električne inštalacije, ki so odgovorne za namestitev polnilnika električnih vozil in merilnika energije funkcije load management.

Pred namestitvijo funkcije load management skrbno in pozorno preberite ta vodič. Sledite navodilom v tem vodiču. Družba Chargedot ne odgovarja za nobeno škodo, ki nastane zaradi neupoštevanja ali neizvajanja navodil, opisanih v tem vodiču.

Splošno:



- **Opozorilo** – Električno opremo sme namestiti, do nje dostopati, servisirati in vzdrževati samo usposobljeno osebje za električne instalacije.
- Električna napeljava mora biti načrtovana in izdelana v skladu z lokalnimi zakoni ter varnostnimi in električnimi predpisi.
- Preden začnete z namestitvijo, preverite, ali je glavno stikalo razdelilne omarice (porabniška enota) nastavljeno na položaj OFF. Preverite napetost, da se prepričate, ali je električno napajanje IZKLOPLJENO.

Izjava o omejitvi odgovornosti

Informacije v tem dokumentu se lahko spremenijo brez predhodnega obvestila in niso zavezujoče za družbo Chargedot. Družba Chargedot ne prevzema nobene odgovornosti za morebitne napake, ki se lahko pojavijo v tem dokumentu.

V nobenem primeru družba Chargedot ni odgovorna za neposredno, posredno, posebno, naključno ali posledično škodo kakršne koli vrste, ki izhaja iz uporabe tega dokumenta. Družba Chargedot prav tako ni odgovorna za naključno ali posledično škodo, ki izhaja iz uporabe programske ali strojne opreme, opisane v tem dokumentu.

⚠ Opozorilo – Delo z visoko napetostjo je lahko smrtno nevarno. Osebe, izpostavljene visoki napetosti, lahko utrpijo srčni zastoj, poškodbe zadnjice ali druge hude poškodbe. Da bi preprečili take poškodbe, pred začetkom namestitve obvezno odklopite napajanje.

⚠ Opozorilo – Iz varnostnih razlogov je priporočljivo, da je oprema nameščena tako, da je nemogoče nenamerno dostopati ali se dotikati priključnih blokov.

Najbolj varna je namestitev v ohišje. Poleg tega je treba dostop do opreme omejiti s pomočjo ključavnice in ključa, nad katerim ima nadzor usposobljeno osebje za električne instalacije.

⚠ Opozorilo – Opreme ne uporabljajte, če niso izpolnjeni navedeni tehnični podatki.

Zahteve za namestitev – Za izpolnjevanje zaščitnih zahtev mora biti merilnik energije nameščen v ohišje z zaščitnim razredom najmanj IP 51 v skladu s standardom IEC 60259.

Previdnost – Pazite, da v merilnik in polnilnik električnih vozil ne zaide tekočina, saj lahko poškoduje opremo.

Če odstranite tesnilne nalepke, s tem izničite garancijo in onemogočite natančno delovanje.

Ta priročnik se nanaša na naslednje modele polnilnikov električnih vozil. Priporoča se uporaba v kombinaciji z navedenimi merilniki energije:

Polnilec za EV			Števec energije		
Chargedot številka dela	Model	Trifazni ali enofazni	ABB številka dela	Model	Trifazni ali enofazni
6AGC082155	Terra AC W7-G5-R-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC082156	Terra AC W11-G5-R-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC082158	Terra AC W22-G5-R-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC105906	Terra AC W7-S-R-C-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC082154	Terra AC W22-S-R-C-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC082157	Terra AC W22-G5-R-C-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC081282	Terra AC W22-S-RD-MC-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118141	Terra AC W7-S-R	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118142	Terra AC-W11-S-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118143	Terra AC W22-S-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118144	Terra AC W7-G5-R	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118145	Terra AC W22-G5-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118146	Terra AC W7-S-R-C	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118147	Terra AC W22-S-R-C	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118148	Terra AC W22-S-RD-MC	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118149	Terra AC-W11-T-RD-PC	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118155	Terra AC W7-S-R	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118156	Terra AC-W11-S-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118157	Terra AC W22-S-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118158	Terra AC W7-G5-R	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118159	Terra AC W22-G5-R	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118160	Terra AC W7-S-R-C	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC118161	Terra AC W22-S-R-C	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118162	Terra AC W22-S-RD-MC	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC118163	Terra AC-W11-T-RD-PC	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128169	Terra AC W7-G5-R-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128178	Terra AC W7-G5-R-C-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128177	Terra AC W7-S-R-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128176	Terra AC W7-S-R-C-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128175	Terra AC W11-G5-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128174	Terra AC W11-S-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128173	Terra AC W22-G5-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128171	Terra AC W22-S-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128195	Terra AC E7-S-R-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128196	Terra AC E7-S-R-C-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128197	Terra AC E7-G5-R-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128198	Terra AC E7-G5-R-C-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128199	Terra AC E11-S-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128200	Terra AC E11-G5-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128201	Terra AC E22-S-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128203	Terra AC E22-G5-R-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Enofazni	2CMA100155R1000	B21 312-100	Enofazni
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifazni	2CMA100166R1000	B23 212-100	Trifazni

Modeli merilnikov energije

Za 1-fazne polnilnike električnih vozil

Številka dela ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Za 3-fazne polnilnike električnih vozil

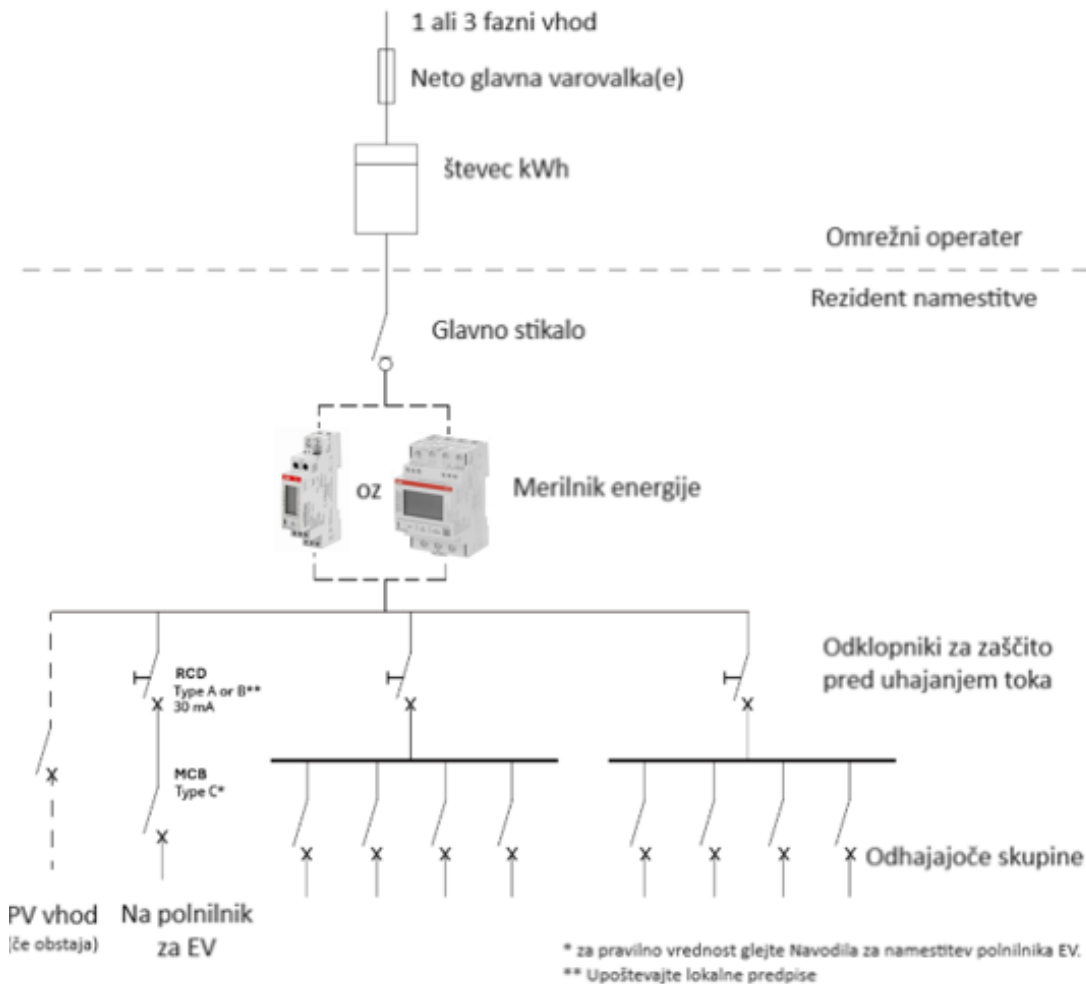
Številka dela ABB: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



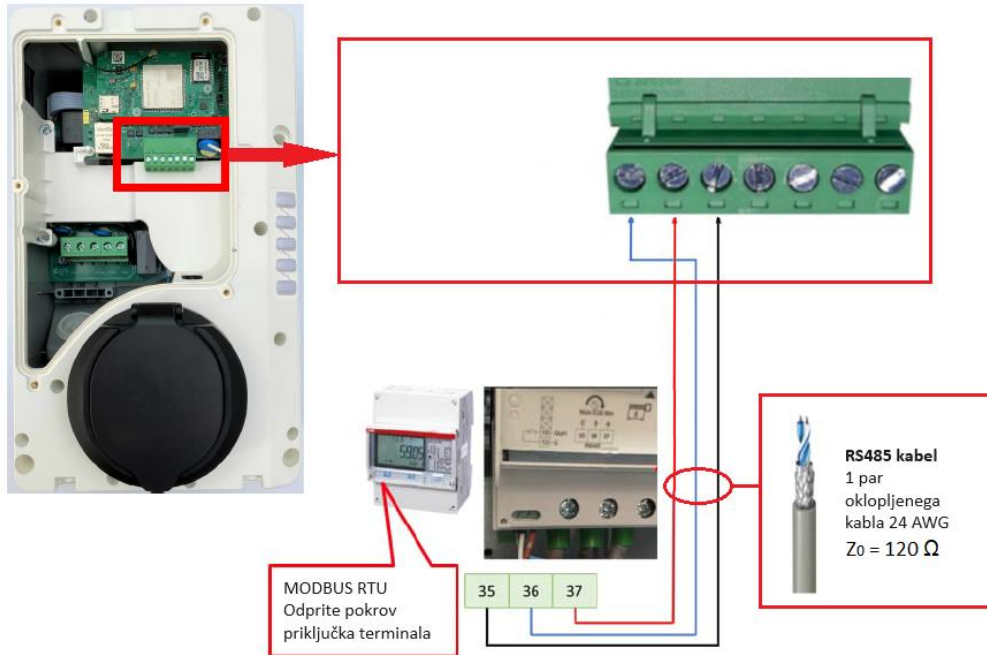
Za mehansko in električno montažo merilnika energije uporabite priložena navodila za montažo (najdete jih v embalaži merilnika energije) ali prenesite priročnike rabljenega merilnika energije na zgornji povezavi *Prenese razpoložljive dokumente*.



Glavno stikalo je samo za varnostni izklop med namestitvijo. Števec energije lahko postavite kamor koli, kjer meri skupno porabo gospodinjstva – če lahko vaš diferenčni odklopnik izklopi napajanje, deluje tudi kot glavno stikalo.

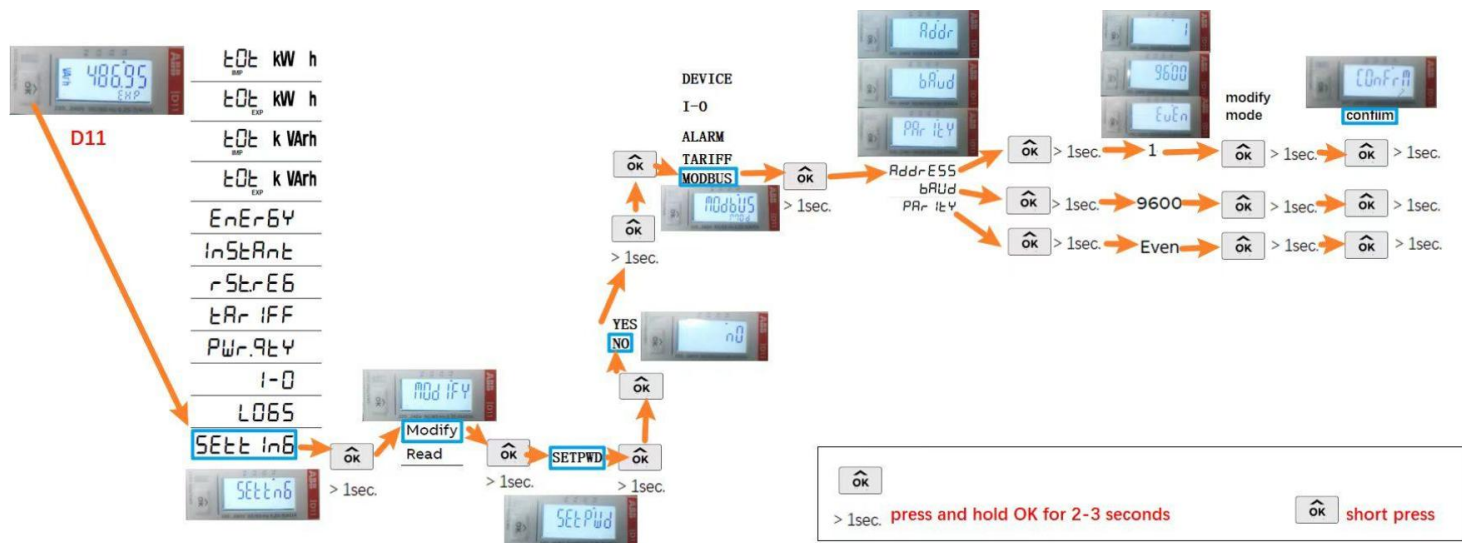
Namestite merilnik energije za glavnim stikalom in pred razdelilno omarico s stikali kvarnega tok in zaščitnimi stikali. Zgornja slika prikazuje tipično razdelilno omarico v stanovanjski stavbi (porabniška enota).

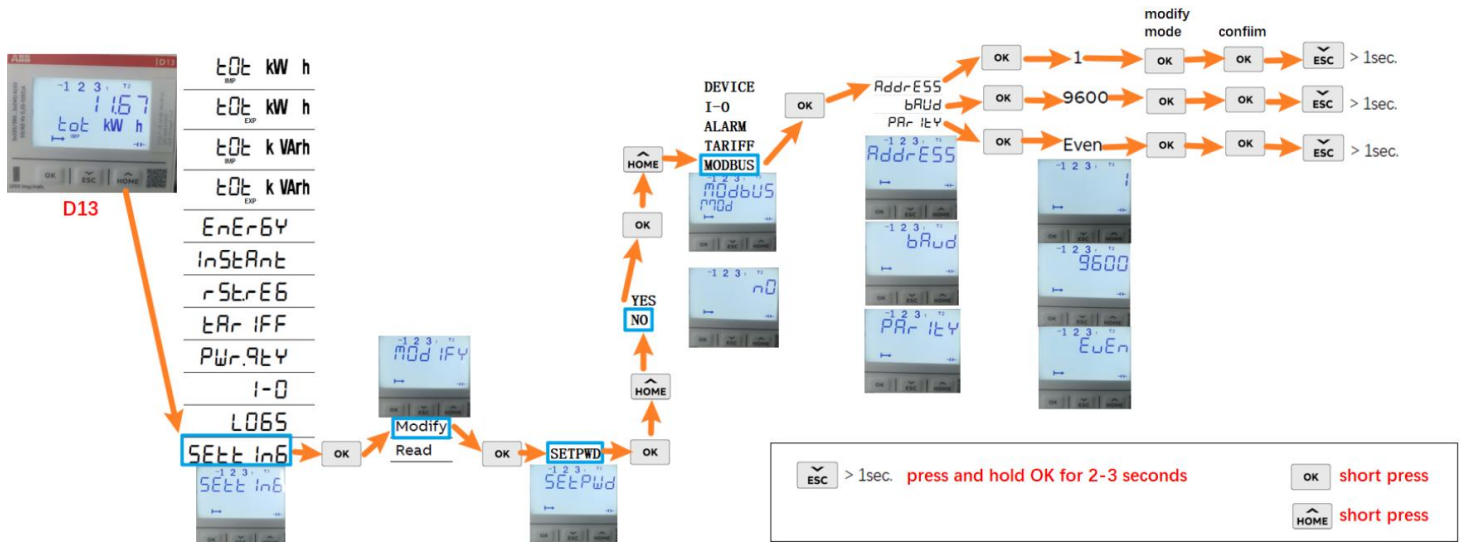
⚠ Opozorilo – Merilnik energije mora biti na dovodni strani zaščiten z varovalkami. Za več informacij si oglejte priročnike za namestitev merilnika energije.



Konfiguracija merilnika energije – potrebna ni nobena sprememba

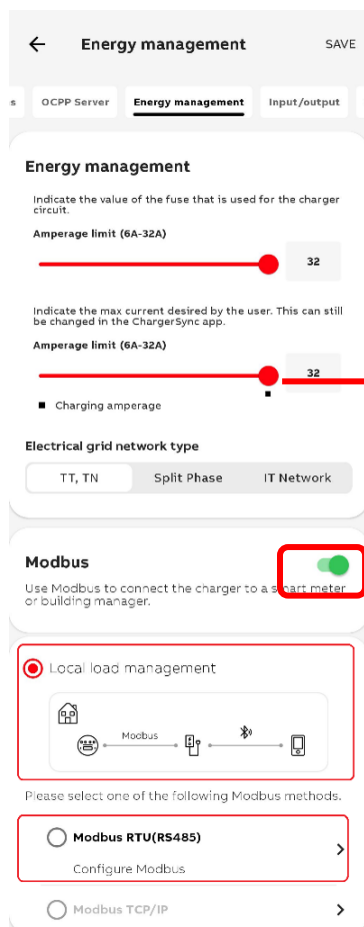
Spodnja slika prikazuje privzete tovarniške nastavitve merilnika energije. To so pravilne nastavitve za funkcijo load management in jih ne smete spreminjati.





Aplikacija za zagon TerraConfig – za funkcijo load management

Za splošne nastavitve polnjenja električnih vozil si oglejte spletni tečaj – povezava do spletnega mesta [Aplikacija TerraConfig – pregled \(Chargedot.com\)](https://www.chargedot.com)

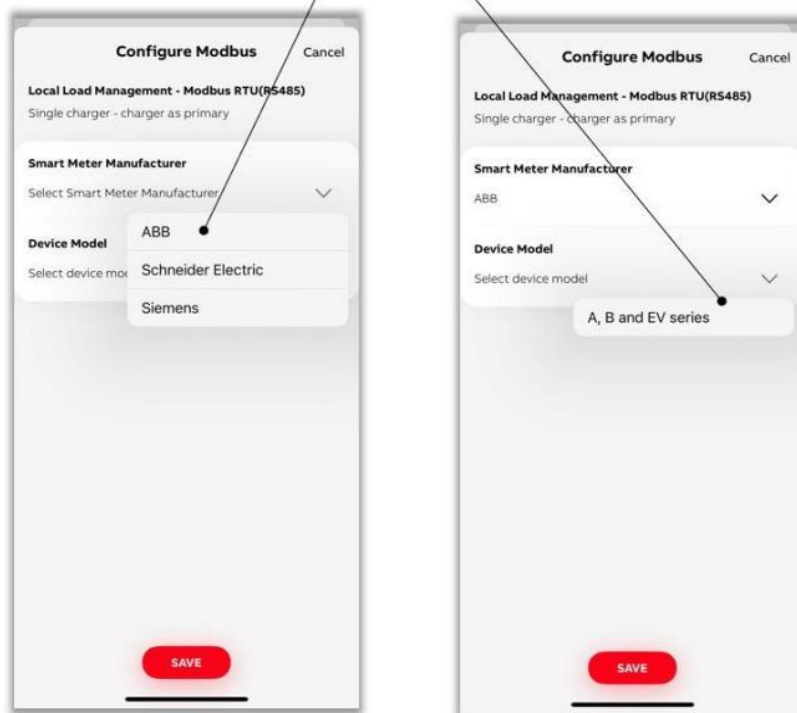


Load Management:
Izberite lokalno funkcijo Load Management
Izberite: RTU(RS485)

Ne nastavljajte največjega toka, ki ga lahko nastavi uporabnik

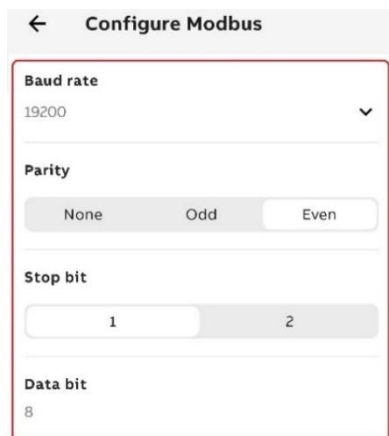
Primer izbire števca ABB

Example of selecting ABB meter



Izberite »**ABB**« na spustnem meniju **SmartMeter Manufacturer**.

Izberite pravilne modele na spustnem meniju **Device Model**.



Configure Modbus

Baud rate
19200

Parity
None Odd Even

Stop bit
1 2

Data bit
8

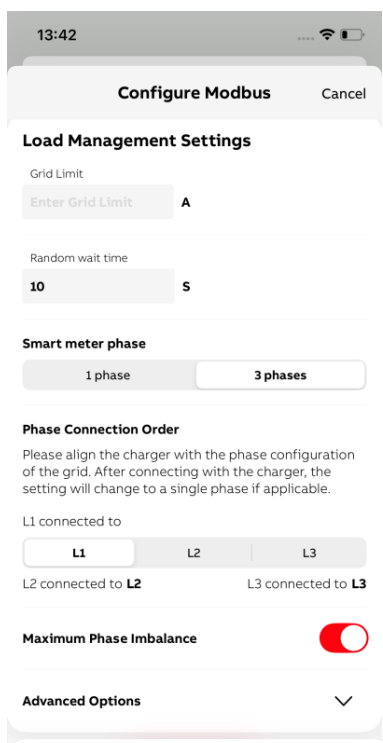
Nastavite vrednost »**Baud Rate**« na »**9600**«.

Nastavite vrednost »**Parity**« na »**Even**«.

Vrednost »**Stop bit**« mora biti »1« in »**Data bit**« mora biti »8«.

OPOMBA

Pametni merilnik in polnilnik električnih vozil morata imeti enake vrednosti.



13:42

Configure Modbus Cancel

Load Management Settings

Grid Limit
Enter Grid Limit A

Random wait time
10 S

Smart meter phase
1 phase 3 phases

Phase Connection Order
Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to
L1 L2 L3

L2 connected to L2 L3 connected to L3

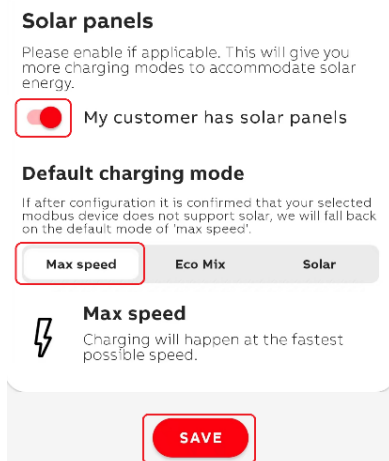
Maximum Phase Imbalance

Advanced Options

Omejitev mreže: največja omejitev (v amperih) omrežne povezave, za katero je treba izvesti izravnavo obremenitve. Preden nastavite to vrednost, preverite glavno varovalko napeljave v stanovanjski stavbi. Ta vrednost ne sme biti višje od glavne varovalke!



Preverite, ali sta »Smart meter phase« in »Phase connection order«, v skladu z nastavitvijo namestitve in lokalnimi predpisi.



Solar panels
Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode
If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed Eco Mix Solar

Max speed
Charging will happen at the fastest possible speed.

SAVE

OPOMBA:

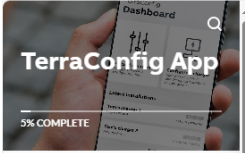
Če so prisotne sončne celice, izberite samo največjo hitrost
Nikoli ne izberite EcoMix ali Solar

Pritisnite gumb **SAVE**, da shranite nastavitve.

Za konec potrdite konfiguracijo, da shranite konfiguracijo polnilnika električnih vozil.

Za napredne nastavitve/navodila sledite povezavi in pojdite na Upravljanje z energijo / ter sledite zavihkom.

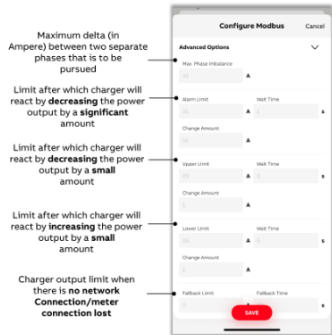
[Aplikacija TerraConfig - pregled \(Chargedot.com\)](https://www.chargedot.com/Aplikacija_TerraConfig_-_pregled)



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Español

Esta Guía de Instalación Rápida (GIR) describe brevemente los pasos de instalación y configuración más importantes para la funcionalidad de gestión de carga del cargador para vehículos eléctricos. Esta GIR no reemplaza el manual de instalación del fabricante del cargador para vehículo eléctrico (VE) y el medidor de energía, sino que es complementario de estos documentos. Hay información más detallada disponible en el manual de instalación del cargador para VE y en el manual de instalación del medidor de energía. Esta GIR está destinada a ser utilizada por personal eléctrico cualificado (instalador) que sea responsable de la instalación del cargador de VE y el medidor de energía con el propósito de función de la Load management.

Antes de instalar la función de gestión de carga, lea atenta y cuidadosamente esta GIR. Siga las instrucciones de esta GIR. Chargedot no es responsable de ningún daño que haya sido causado por no seguir y ejecutar incorrectamente las instrucciones descritas en esta GIR.

En general:



- **Advertencia** – Solo debe instalar, acceder, reparar y mantener los equipos eléctricos el personal eléctrico cualificado.
- La instalación eléctrica debe diseñarse y construirse de acuerdo con las leyes y normas eléctricas y de seguridad locales.
- Asegúrese de que el interruptor principal del armario de distribución (unidad de consumo) esté en la posición APAGADO, antes de comenzar el trabajo de instalación. Haga una verificación de voltaje para asegurarse de que la energía eléctrica esté apagada.

Descargo de responsabilidad

La información de este documento puede cambiar sin previo aviso y no debe ser considerada como un compromiso por parte de Chargedot. Chargedot no asume responsabilidad alguna derivada de los errores que puedan aparecer en este documento.

En ningún caso Chargedot será responsable de los daños directos, indirectos, especiales, incidentales o consecuentes de cualquier naturaleza o tipo que surjan del uso de este documento, ni Chargedot será responsable de los daños incidentales o consecuentes que surjan del uso de cualquier software o hardware descrito en este documento.

 **Advertencia** – Trabajar con alto voltaje es potencialmente letal. Las personas sometidas a alto voltaje pueden sufrir un paro cardíaco, quemaduras u otras lesiones graves. Para evitar este tipo de lesiones, asegúrese de desconectar la fuente de alimentación antes de comenzar la instalación.

 **Advertencia** – Por razones de seguridad se recomienda que el equipo se instale de manera que sea imposible alcanzar o tocar los bloques de terminales sin querer.

La mejor manera de realizar una instalación segura es instalar la unidad en un recinto. Además, el acceso al equipo debe limitarse mediante el uso de cerradura y llave, controladas por personal eléctrico calificado.

 **Advertencia** – No utilice el equipo fuera de los datos técnicos especificados.

Requerimientos de instalación – Para cumplir con los requisitos de protección, el medidor de energía debe montarse en armarios de clase de protección IP 51, o mejor, según la IEC 60259.

Precaución – Tenga cuidado de que no entre líquido en el medidor ni en el cargador para VE, ya que podría dañar el equipo.

La garantía y la precisión quedan anuladas si se retiran las etiquetas de sellado.

Este manual es aplicable a los siguientes modelos de cargadores para VE y se recomienda combinarlo con los modelos de contadores de energía indicados:

Cargador para VE			Medidor de energía		
Número de pieza Chargedot	Modelo	Trifásico o monofásico	Número de pieza ABB	Modelo	Trifásico o monofásico
6AGC082155	Terra AC W7-G5-R-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC082156	Terra AC W11-G5-R-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC082158	Terra AC W22-G5-R-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC105906	Terra AC W7-S-R-C-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC082154	Terra AC W22-S-R-C-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC082157	Terra AC W22-G5-R-C-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC081282	Terra AC W22-S-RD-MC-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118141	Terra AC W7-S-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118142	Terra AC-W11-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118143	Terra AC W22-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118144	Terra AC W7-G5-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118145	Terra AC W22-G5-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118146	Terra AC W7-S-R-C	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118147	Terra AC W22-S-R-C	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118148	Terra AC W22-S-RD-MC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118149	Terra AC-W11-T-RD-PC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118155	Terra AC W7-S-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118156	Terra AC-W11-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118157	Terra AC W22-S-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118158	Terra AC W7-G5-R	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118159	Terra AC W22-G5-R	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118160	Terra AC W7-S-R-C	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC118161	Terra AC W22-S-R-C	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118162	Terra AC W22-S-RD-MC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC118163	Terra AC-W11-T-RD-PC	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128169	Terra AC W7-G5-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128178	Terra AC W7-G5-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128177	Terra AC W7-S-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128176	Terra AC W7-S-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128175	Terra AC W11-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128174	Terra AC W11-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128173	Terra AC W22-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128171	Terra AC W22-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128170	Terra AC W22-S-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128195	Terra AC E7-S-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128196	Terra AC E7-S-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128197	Terra AC E7-G5-R-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128198	Terra AC E7-G5-R-C-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128199	Terra AC E11-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128200	Terra AC E11-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128201	Terra AC E22-S-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128202	Terra AC E22-S-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128203	Terra AC E22-G5-R-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Monofásico	2CMA100155R1000	B21 312-100	Monofásico
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trifásico	2CMA100166R1000	B23 212-100	Trifásico

Modelos de contadores de energía.

Para cargadores de VE monofásicos

Número de pieza ABB: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



Para cargadores de VE trifásicos

Número de pieza ABB:

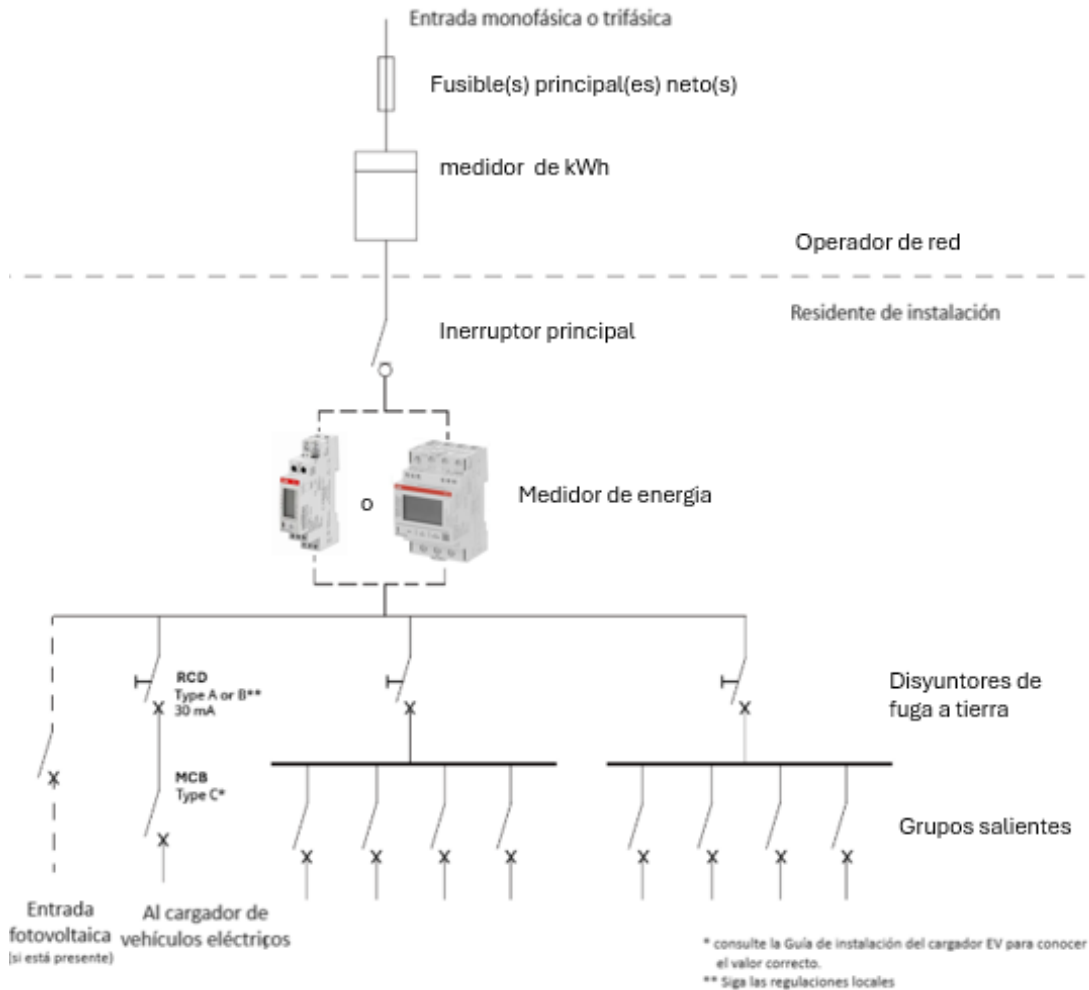
2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)

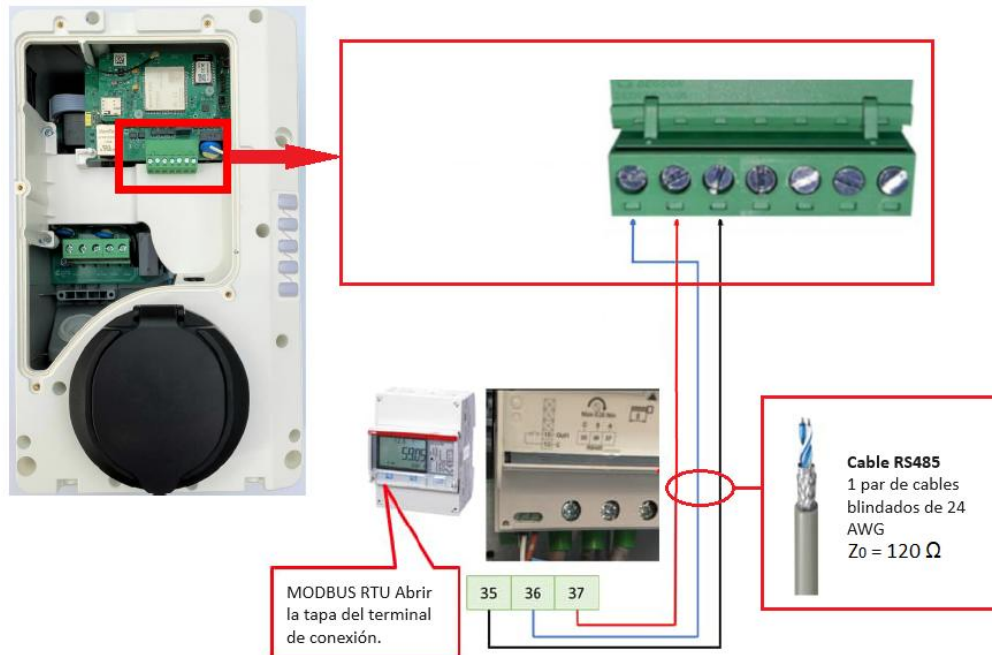


Para la instalación mecánica y eléctrica del contador de energía, utilice las instrucciones de instalación incluidas (se encuentran dentro del embalaje del contador de energía) o descargue los manuales del contador de energía usado en el enlace *Descargas de documentos disponibles* arriba.



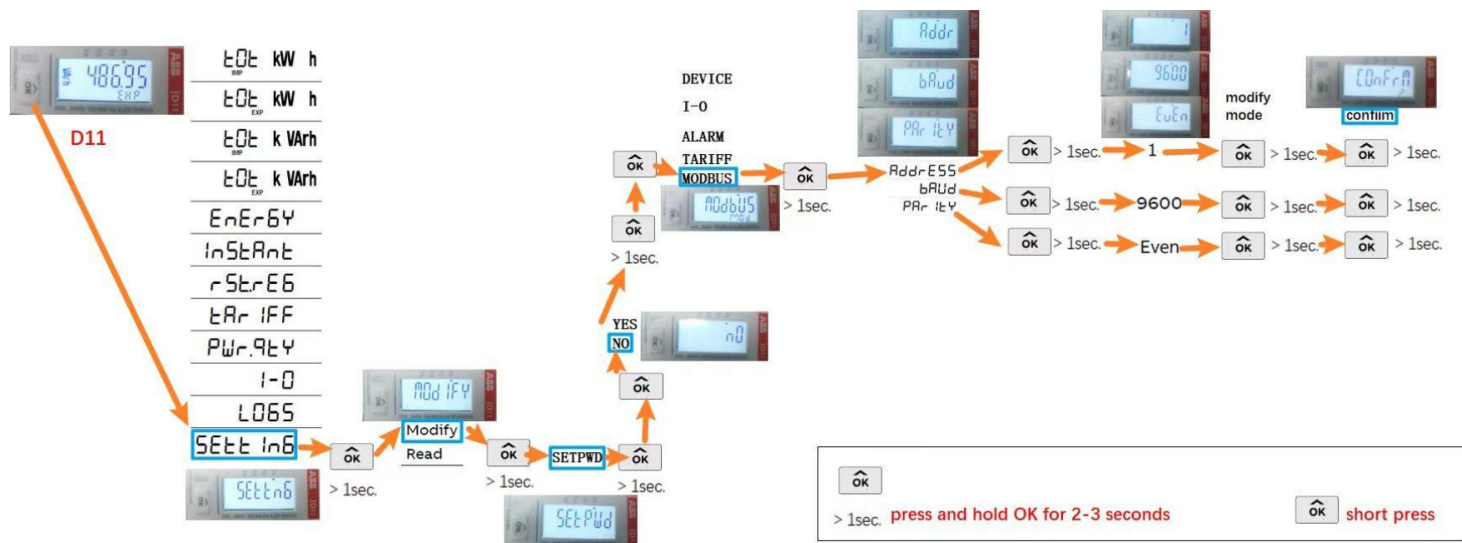
Instale el contador de energía después del interruptor principal y antes del armario de distribución con disyuntores y disyuntores de fuga a tierra. La figura anterior es un ejemplo de un armario de distribución (unidad de consumo) residencial típico.

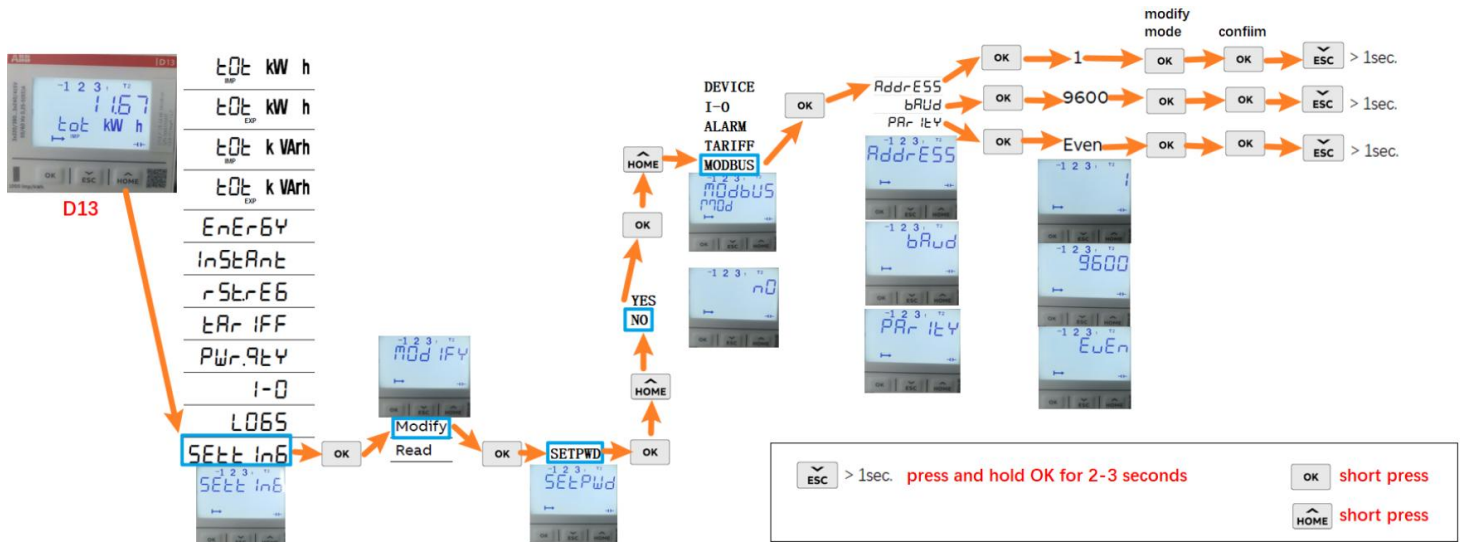
⚠ Advertencia – El contador de energía debe estar siempre protegido por fusibles en el lado de entrada. Consulte para más información los manuales de instalación del contador de energía.



Configuración del contador de energía - no se necesitan cambios

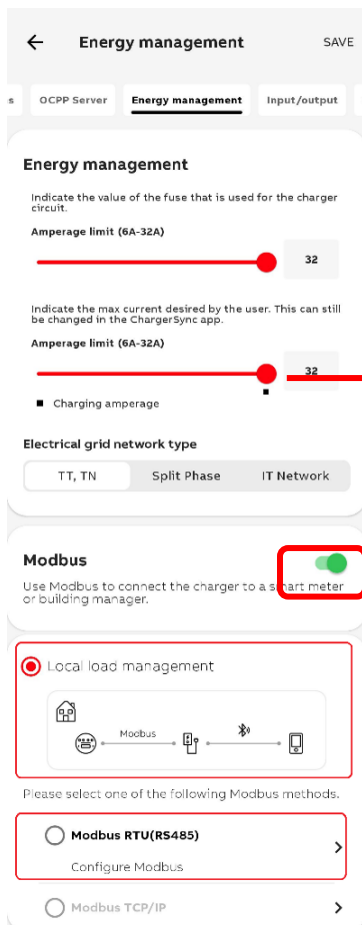
La siguiente figura muestra la configuración predeterminada de fábrica del contador de energía. Son las configuraciones correctas para la Load management y no deben cambiarse.





Aplicación de puesta en servicio TerraConfig: para la Load management

Para conocer la configuración general de carga para VE, consulte el tutorial en línea – enlace al sitio web [Aplicación TerraConfig - Visión general \(Chargedot.com\)](http://Aplicación TerraConfig - Visión general (Chargedot.com))

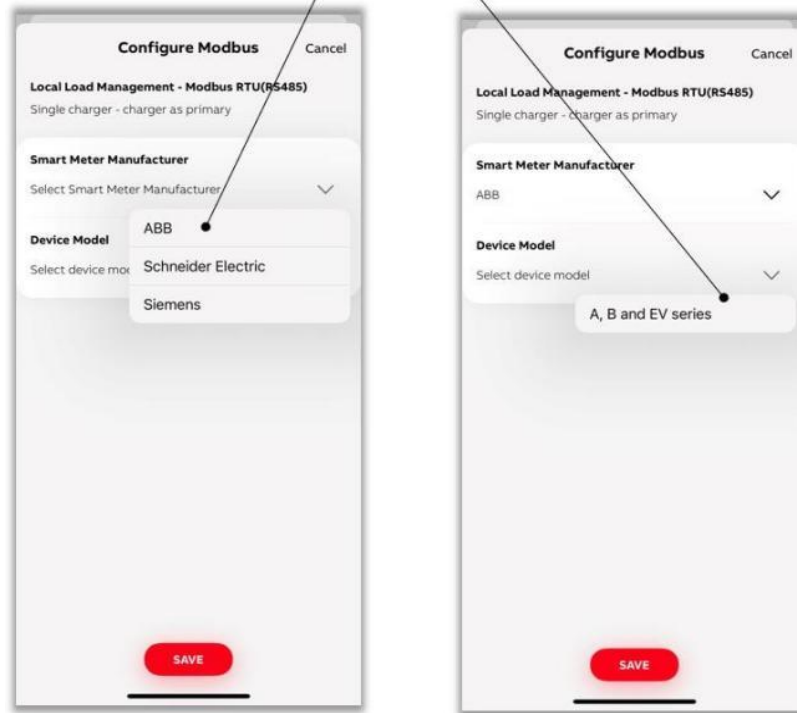


Load management:
Seleccionar Gestión de carga local
Seleccionar: RTU(RS485)

→ No ajuste la corriente máxima configurable por el usuario

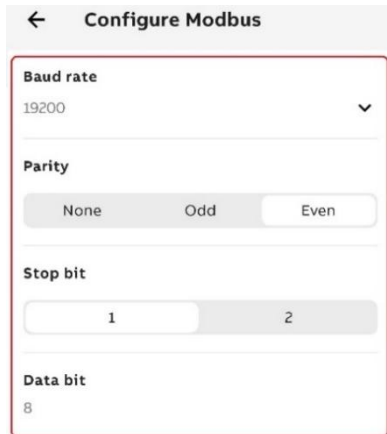
Ejemplo de selección del medidor ABB

Example of selecting ABB meter



Seleccionar '**ABB**' en el menú desplegable **Fabricante del contador inteligente**.

Seleccionar correctas modelos en el menú desplegable **Modelo de dispositivo**.



Configure Modbus

Baud rate: 19200

Parity: None, Odd, Even

Stop bit: 1, 2

Data bit: 8

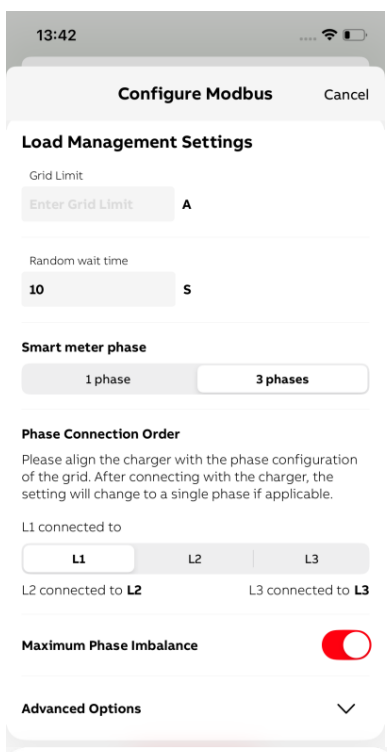
Seleccionar **Velocidad en baudios** en '**9600**'

Selecciona la **Paridad** en '**Par**'

Bit de parada debe ser 1 y **Bit de datos** debe ser 8

NOTA

El contador inteligente y el cargador para VE deben tener los mismos valores.



Configure Modbus Cancel

Load Management Settings

Grid Limit: Enter Grid Limit A

Random wait time: 10 S

Smart meter phase

1 phase, 3 phases

Phase Connection Order

Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to: L1, L2, L3

L2 connected to L2, L3 connected to L3

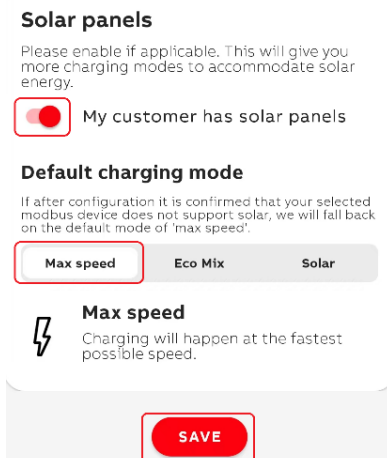
Maximum Phase Imbalance

Advanced Options

Límite de red: límite máximo (en amperios) de la conexión a la red para la que se debe realizar el equilibrio de carga. Antes de configurar este valor, verifique el fusible principal de la instalación residencial. ¡Este valor no debe establecerse por encima del fusible principal!



Revise la 'Fase del contador inteligente' y el 'Orden de conexión de fases' para que estén en línea con la configuración de la instalación y la normativa local.



Solar panels

Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode

If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed, Eco Mix, Solar

Max speed

Charging will happen at the fastest possible speed.

SAVE

NOTA:

Si hay paneles solares, seleccione sólo velocidad máxima
Nunca seleccione EcoMix o Solar

Pulse el botón **GUARDAR** para guardar la configuración.

Termine confirmando la configuración para guardar la configuración en el cargador de VE.

Para configuraciones/instrucciones avanzadas, siga el enlace [Aplicación TerraConfig - Descripción general \(Chargedot.com\)](https://Chargedot.com) y vaya a Gestión de la energía / y siga las pestañas.



- Onboarding to TerraConfig ☐
- Commissioning a charger ☐
- Select & connect a charger ☐
- Configure settings ☐
- Firmware update ☐
- Network connection ☐
- OCCP server - External backoffice ☐
- Energy management ☒**
- Input/Output ☐
- Charging RFID cards ☐

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network connection/meter connection lost**



Load management

svenska

Denna snChargedotinstallationsguide (QIG, Quick Installation Guide) beskriver kortfattat de viktigaste installations- och konfigurationsstegen för funktionen Load management i EV-laddaren. Denna QIG är inte en ersättning till tillverkarens installationshandbok för EV-laddaren och energimätaren. Den är ett komplement till dessa dokument. Mer detaljerad information finns i installationshandboken för EV-laddaren och installationshandboken för energimätaren. Denna QIG är avsedd att användas av kvalificerad elektrisk personal (installatör) som är ansvarig för installationen av EV-laddaren och energimätaren för Load management.

Innan du installerar funktionen Load management, läs denna QIG noggrant och uppmärksamt. Följ instruktionerna i denna QIG. Chargedot ansvarar inte för några skador som har orsakats av underlåtenhet att eller felaktigt följa och utföra instruktionerna som beskrivs i denna QIG.

Allmänt:



- **Varning** – Elektrisk utrustning bör endast installeras, ges åtkomst till, servas och underhållas av kvalificerad elektrisk personal.
- Den elektriska installationen bör utformas och konstrueras enligt lokala lagar, säkerhets- och elektriska föreskrifter.
- Se till att huvudbrytaren på fördelarskåpet (kundens enhet) är i läget OFF innan installationsarbetet påbörjas. Gör en spänningskontroll för att se till att strömmen är avstängd.

Ansvarsfriskrivning

Informationen i detta dokument kan ändras utan föregående meddelande och ska inte tolkas som ett åtagande från Chargedot. Chargedot tar inget ansvar för eventuella fel som kan förekomma i detta dokument.

Under inga omständigheter ska Chargedot hållas ansvarigt för direkta, indirekta, särskilda, oförutsedda skador eller följdskador av något slag som uppstår vid användningen av detta dokument, och inte heller ska Chargedot hållas ansvarigt för oförutsedda skador eller följdskador som härrör från användning av programvara eller hårdvara som beskrivs i detta dokument.

⚠ Varning – Arbete med högspänning är potentiellt livsfarligt. Personer som utsätts för högspänning kan drChargedotas av hjärtstopp, brännskador eller andra allvarliga skador. För att undvika sådana skador, se till att koppla bort strömförsörjningen innan du påbörjar installationen.

⚠ Varning – Av säkerhetsskäl rekommenderas att utrustningen installeras på ett sätt som gör det omöjligt att nå eller vidröra plintblocken av misstag.

Det bästa sättet att göra en säker installation är att installera enheten i en inkapsling. Vidare bör åtkomsten till utrustningen begränsas genom användning av lås och nyckel, och detta ska kontrolleras av kvalificerad elektrisk personal.

⚠ Varning – Använd inte utrustningen utanför angivna tekniska data.

Installationskrav – För att uppfylla skyddskraven måste energimätaren monteras i inkapslingar enligt skyddsklass IP 51, eller bättre, enligt IEC 60259.

Varning – Var försiktig så att ingen vätska kommer in i mätaren och EV-laddaren eftersom det kan skada utrustningen.

Garanti och korrekthet är ogiltiga om förseglingsetiketter tas bort.

Den här bruksanvisningen är tillämplig på följande EV-laddarmodeller och rekommenderas att kombineras med angivna energimätare:

EV-laddare			Energimätare		
Chargedot delnummer	Modell	Tre- eller enfas	ABB delnummer	Modell	Tre- eller enfas
6AGC082155	Terra AC W7-G5-R-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC082156	Terra AC W11-G5-R-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC082158	Terra AC W22-G5-R-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC105906	Terra AC W7-S-R-C-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC082154	Terra AC W22-S-R-C-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC082157	Terra AC W22-G5-R-C-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC081282	Terra AC W22-S-RD-MC-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118141	Terra AC W7-S-R	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118142	Terra AC-W11-S-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118143	Terra AC W22-S-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118144	Terra AC W7-G5-R	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118145	Terra AC W22-G5-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118146	Terra AC W7-S-R-C	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118147	Terra AC W22-S-R-C	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118148	Terra AC W22-S-RD-MC	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118149	Terra AC-W11-T-RD-PC	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118155	Terra AC W7-S-R	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118156	Terra AC-W11-S-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118157	Terra AC W22-S-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118158	Terra AC W7-G5-R	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118159	Terra AC W22-G5-R	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118160	Terra AC W7-S-R-C	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC118161	Terra AC W22-S-R-C	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118162	Terra AC W22-S-RD-MC	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC118163	Terra AC-W11-T-RD-PC	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128169	Terra AC W7-G5-R-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128178	Terra AC W7-G5-R-C-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128177	Terra AC W7-S-R-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128176	Terra AC W7-S-R-C-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128175	Terra AC W11-G5-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128174	Terra AC W11-S-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128173	Terra AC W22-G5-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128172	Terra AC W22-G5-R-C-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128171	Terra AC W22-S-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128170	Terra AC W22-S-R-C-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128195	Terra AC E7-S-R-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128196	Terra AC E7-S-R-C-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128197	Terra AC E7-G5-R-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128198	Terra AC E7-G5-R-C-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128199	Terra AC E11-S-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128200	Terra AC E11-G5-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128201	Terra AC E22-S-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128202	Terra AC E22-S-R-C-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128203	Terra AC E22-G5-R-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128204	Terra AC E22-G5-R-C-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Enfas	2CMA100155R1000	B21 312-100	Enfas
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Trefas	2CMA100166R1000	B23 212-100	Trefas

Energimätarmodeller

För 1-fas EV-laddare

ABB-artikelnnummer: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



För 3-fas EV-laddare

ABB-artikelnnummer:

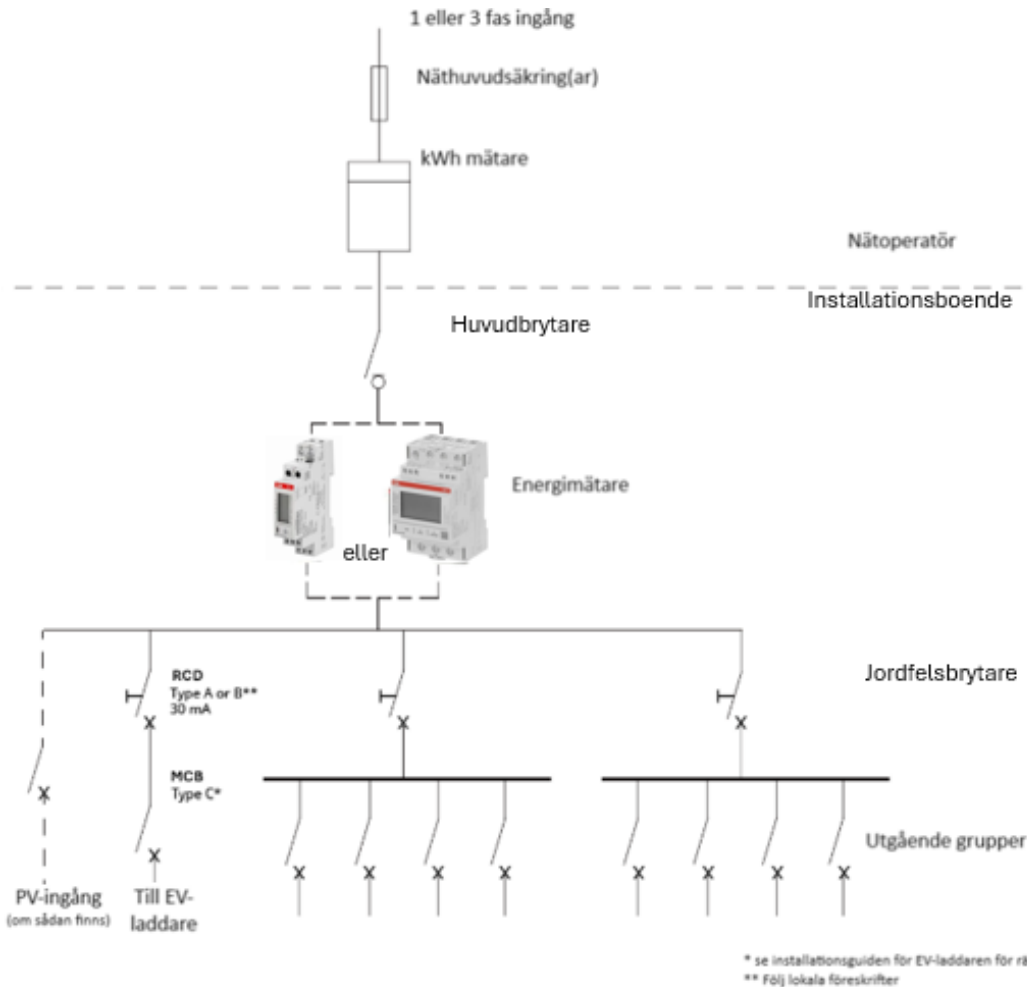
2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



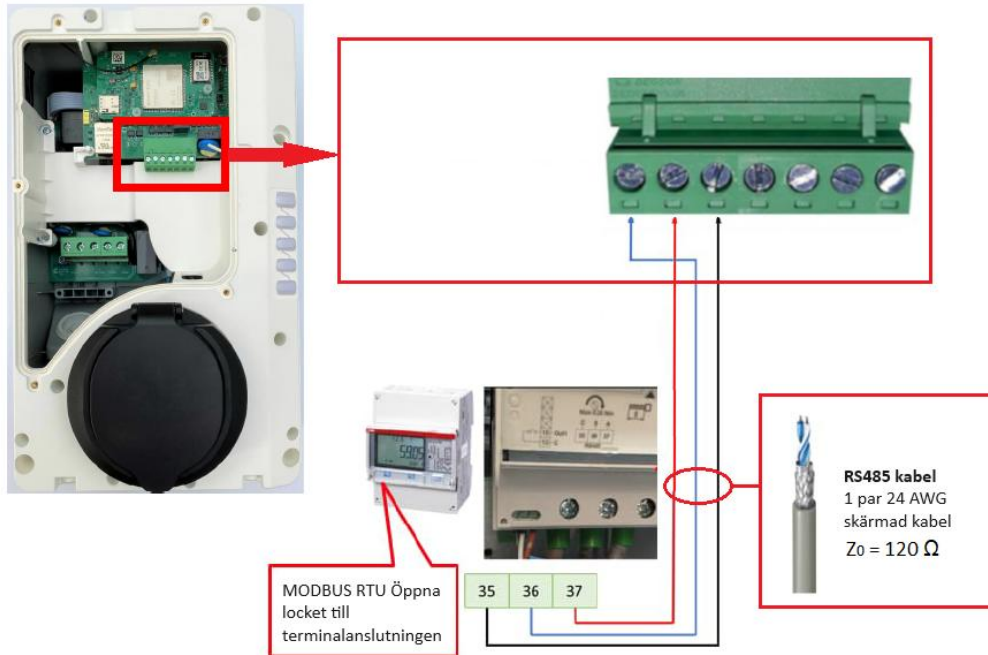
För den mekaniska och elektriska installationen av energimätaren, använd den medföljande installationsanvisningen (finns i energimätarens förpackning) eller ladda ner handböcker för den använda energimätaren med länken *Ladda ned tillgängliga dokument* ovan.



Huvudbrytaren är endast för säkerhetsfrånkoppling under installationen. Energimätaren kan placeras var som helst som mäter hushållets totala förbrukning – om din jordfelsbrytare kan stänga av strömmen fungerar den också som en huvudbrytare.

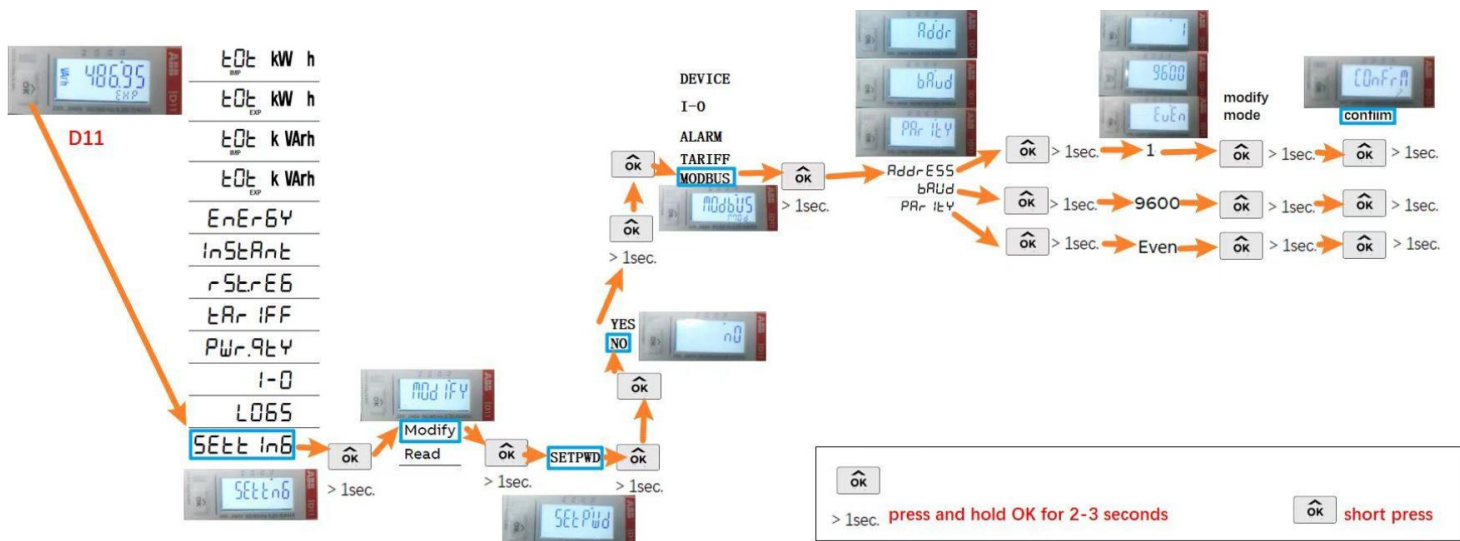
Installera energimätaren efter huvudbrytaren och före fördelarskåpet med jordfelsbrytare och effektbrytare. Figuren ovan är ett exempel på ett typiskt fördelarskåp för bostäder (kundens enhet).

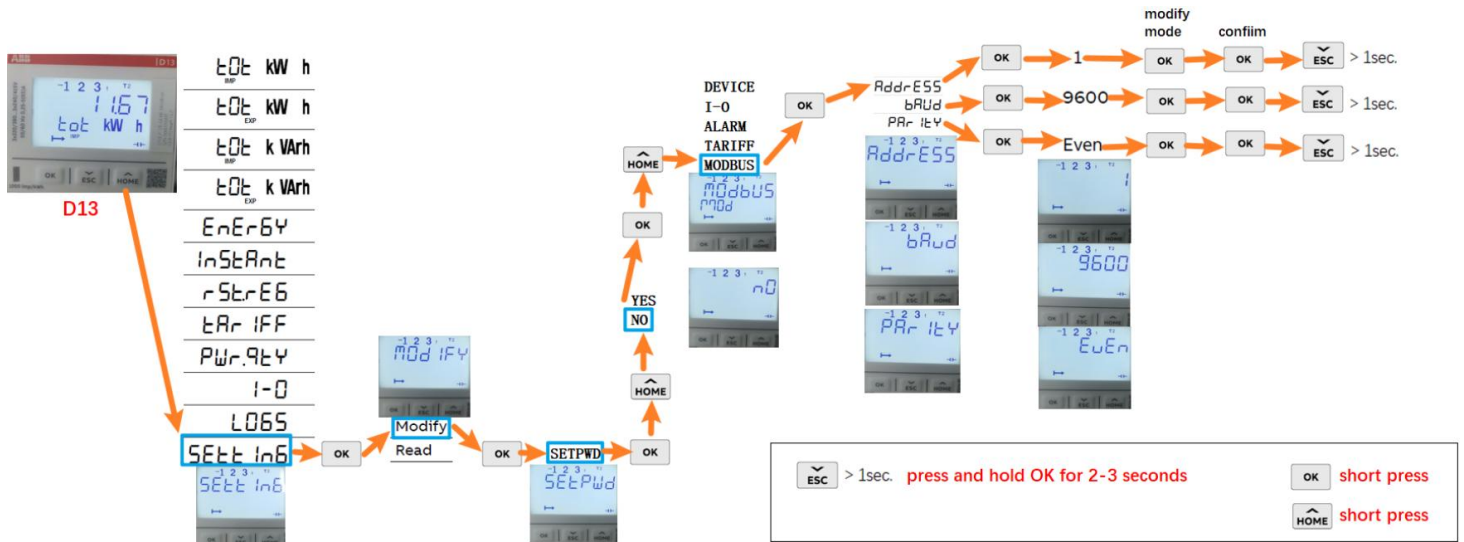
⚠ Varning – Energimätaren ska alltid skyddas av säkringar på den inkommande sidan. För mer information, se installationshandböckerna för energimätaren.



Energimätarens konfiguration - ingen ändring behövs

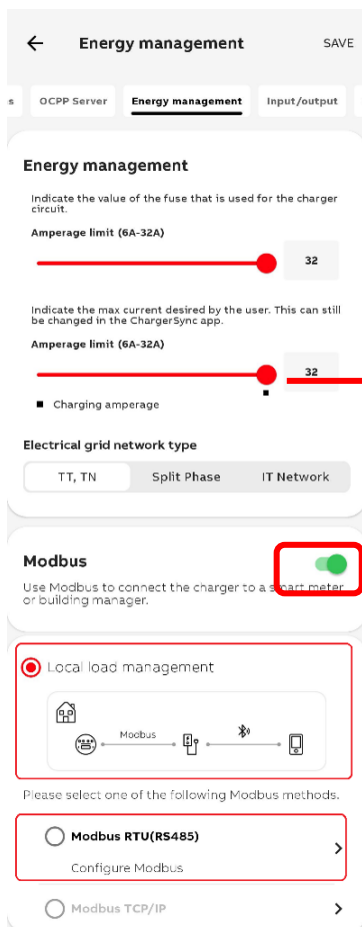
Figuren nedan visar fabriksinställningarna för energimätaren. Det är de korrekta inställningarna för Load management och de bör inte ändras.





TerraConfig-idrifttagningsapp - för Load management

För allmänna EV-laddinställningar, se onlinehandledningen – länk till webbplatsen [TerraConfig-appen – Översikt \(Chargedot.com\)](#)

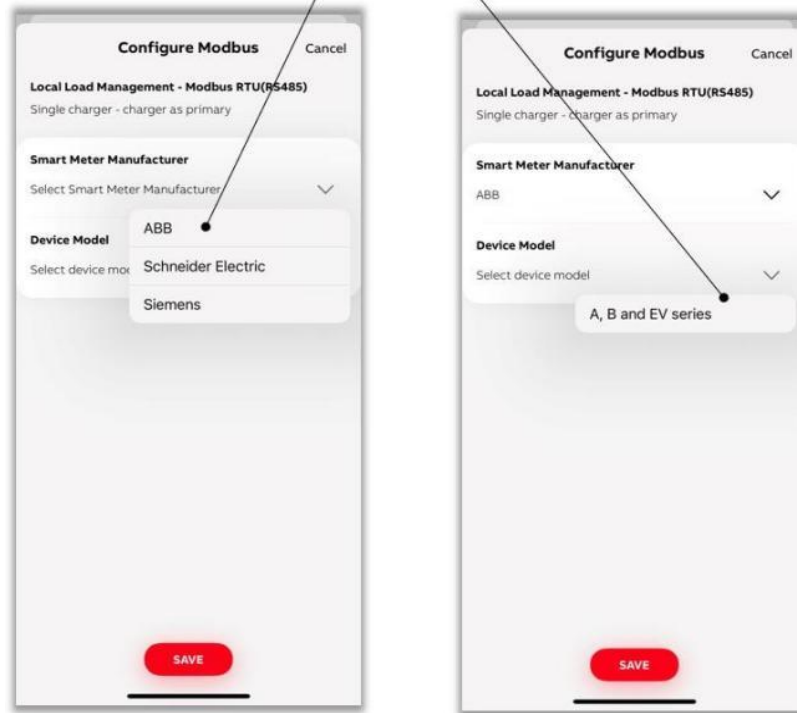


Load Management:
Välj lokal Load Management
Välj: RTU(RS485)

► Ställ inte in den av användaren inställbara maxströmmen

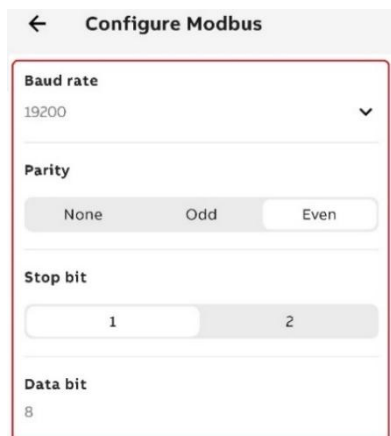
Exempel på val
av ABB-mätare

Example of
selecting ABB meter



Välj "**ABB**" i rullgardinsmenyn **SmartMeter-tillverkare**.

Välj korrekta modeller i rullgardinsmenyn **Enhetsmodell**.



Configure Modbus

Baud rate: 19200

Parity: None, Odd, Even

Stop bit: 1, 2

Data bit: 8

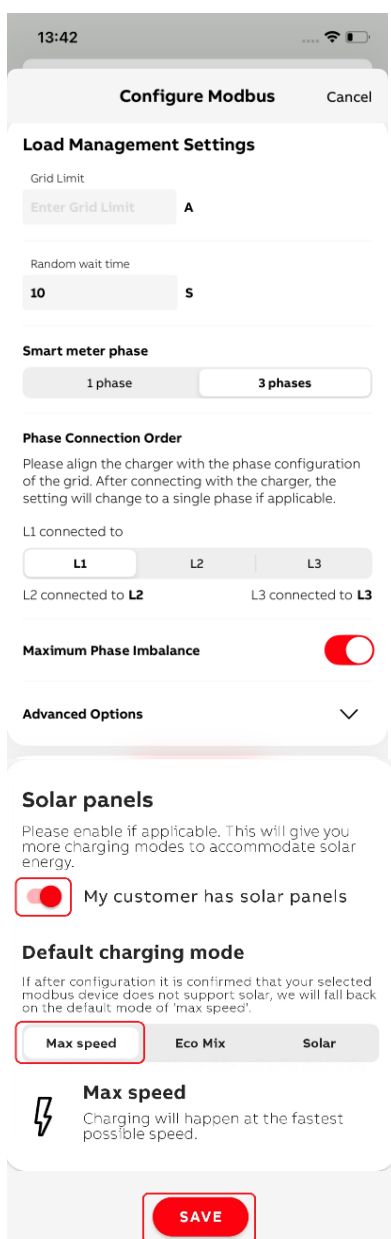
Ställ in **Baudhastighet** till "9600"

Ställ in **Paritet** till "Jämn"

Stoppbit måste vara 1 och **Databit** måste vara 8

OBS!

Smartmätare och EV-laddare bör ha samma värden.



Configure Modbus Cancel

Load Management Settings

Grid Limit: Enter Grid Limit A

Random wait time: 10 S

Smart meter phase

1 phase, 3 phases

Phase Connection Order

Please align the charger with the phase configuration of the grid. After connecting with the charger, the setting will change to a single phase if applicable.

L1 connected to: L1, L2, L3

L2 connected to L2, L3 connected to L3

Maximum Phase Imbalance

Advanced Options

Solar panels

Please enable if applicable. This will give you more charging modes to accommodate solar energy.

My customer has solar panels

Default charging mode

If after configuration it is confirmed that your selected modbus device does not support solar, we will fall back on the default mode of 'max speed'.

Max speed, Eco Mix, Solar

Max speed

Charging will happen at the fastest possible speed.

SAVE

Nätgräns: maxgräns (i ampere) för nätanslutningen för vilken lastbalansering ska utföras. Innan du ställer in detta värde, kontrollera huvudsäkringen för bostadsinstallationen. Detta värde bör inte ställas högre än huvudsäkringen!



Kontrollera att "Smartmätarfas" och "Ordning för fasanslutning" stämmer med installationsinställningarna och lokala föreskrifter.

OBS!

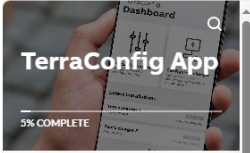
OM det finns solpaneler, välj endast Max speed

Välj aldrig EcoMix eller Solar

Tryck på knappen **SPARA** för att lagra inställningarna.

Avsluta med att bekräfta konfigurationen för att lagra konfigurationen på EV-laddaren.

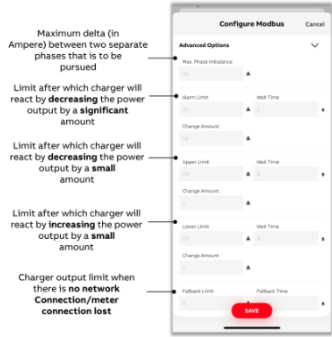
För avancerade inställningar/instruktioner, besök länken [TerraConfig-appen – Översikt \(Chargedot.com\)](https://www.chargedot.com/TerraConfig-appen) och gå till Energihantering/och följ flikarna.



TerraConfig App

3% COMPLETE

- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS	SMART METER SETTING	SUPPORTED SMART METER	MODBUS SETTINGS
After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter. Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.			
			

Load management

Türkçe

Bu Hızlı Kurulum Kılavuzu'nda (QIG), Elektrikli Araç Şarj Cihazının Load management işlevselliği için en önemli kurulum ve yapılandırma adımları kısaca açıklanmaktadır. Bu QIG, Elektrikli Araç Şarj Cihazı ve Enerji sayacının üretici kurulum kılavuzunun yerine geçmez; bu belgeleri tamamlayıcı niteliktedir. Daha ayrıntılı bilgi Elektrikli Araç Şarj Cihazı kurulum kılavuzunda ve Enerji sayacı kurulum kılavuzunda yer almaktadır. Bu QIG'nin, Load management işlevselliği amacıyla Elektrikli Araç Şarj Cihazı ve Enerji sayacının kurulumundan sorumlu olan nitelikli elektrik personeli (tesisatçı) tarafından kullanılması amaçlanmıştır.

Load management işlevini kurmadan önce bu QIG'yi dikkatli ve özenli bir şekilde okuyun. Bu QIG'deki talimatları izleyin. Chargedot, bu QIG'de açıklanan talimatların takip edilmemesi veya yanlış şekilde takip edilmesi ve uygulanmasından kaynaklanan hiçbir hasardan sorumlu değildir.

Genel:

Uyarı - Elektrikli ekipmanlar için kurulum, erişim, servis ve bakım işlemleri yalnızca nitelikli elektrik personeli tarafından gerçekleştirilmelidir.



Elektrik tesisatı yerel yasalara, güvenlik ve elektrik düzenlemelerine göre tasarlanmalı ve inşa edilmelidir. Kurulum işine başlamadan önce dağıtım kabininin (Tüketici Ünitesi) ana şalterinin KAPALI konuma getirildiğinden emin olun. Elektrik gücünün KAPALI olduğundan emin olmak için gerilim kontrolü yapın.

Sorumluluk Reddi

Bu belgedeki bilgiler önceden haber verilmeden değiştirilebilir ve bu bilgiler Chargedot'nin bir taahhüdü olarak yorumlanmamalıdır. Chargedot bu belgede yer alabilecek herhangi bir hata için sorumluluk kabul etmez. Chargedot hiçbir durumda bu belgenin kullanımından kaynaklanan hiçbir nitelikte veya türde doğrudan, dolaylı, özel, arızı veya sonuç olarak ortaya çıkan zararlardan sorumlu olmayacağı gibi Chargedot, bu belgede açıklanan herhangi bir yazılım veya donanımın kullanımından kaynaklanan arızı veya sonuç olarak ortaya çıkan zararlardan sorumlu olmayacaktır.

⚠ Uyarı – Yüksek gerilimle çalışmak potansiyel olarak ölümcüldür. Yüksek gerilime maruz kalan kişiler kalp krizi geçirebilir, yanık yaralanmalarına veya diğer ciddi yaralanmalara maruz kalabilir. Bu tür yaralanmaları önlemek için kurulumla başlamadan önce güç kaynağının bağlantısını kestiğinizden emin olun.

⚠ Uyarı – Güvenlik nedeniyle ekipmanın terminal bloklarına kazara ulaşılmasını veya bunlarla temas edilmesini imkansız kılacak şekilde kurulması tavsiye edilir.

Güvenli bir kurulum yapmanın en iyi yolu, üniteyi bir muhafazanın içine monte etmektir. Ayrıca, ekipmana erişim, nitelikli elektrik personeli tarafından kontrol edilen kilit ve anahtar kullanımıyla sınırlandırılmalıdır.

⚠ Uyarı – Ekipmanı belirtilen teknik veriler dışında çalıştırmayın.

Kurulum Gerekliklikleri – Koruma gereklikliklerine uymak için enerji sayacının IEC 60259'a göre koruma sınıfı IP 51 veya daha iyi muhafazaların içine monte edilmesi gerekir.

Dikkat – Ekipmana zarar verebileceği için ölçüm aletine ve Elektrikli Araç Şarj Cihazına sıvı girmemesine dikkat edin.

Sızdırmazlık etiketleri çıkarılırsa garanti ve doğruluk geçersiz olur.

Bu kılavuz aşağıdaki Elektrikli Araç Şarj Cihazı modelleri için geçerlidir ve belirtilen enerji sayacı modelleriyle birleştirilmesi önerilir:

EV şarj cihazı			Enerji sayacı		
Chargedot parça numarası	Model	Üç fazlı veya tek fazlı	ABB parça numarası	Model	Üç fazlı veya tek fazlı
6AGC082155	Terra AC W7-G5-R-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC082156	Terra AC W11-G5-R-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC082158	Terra AC W22-G5-R-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC105906	Terra AC W7-S-R-C-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC082154	Terra AC W22-S-R-C-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC082157	Terra AC W22-G5-R-C-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC081282	Terra AC W22-S-RD-MC-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118141	Terra AC W7-S-R	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118142	Terra AC-W11-S-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118143	Terra AC W22-S-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118144	Terra AC W7-G5-R	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118145	Terra AC W22-G5-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118146	Terra AC W7-S-R-C	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118147	Terra AC W22-S-R-C	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118148	Terra AC W22-S-RD-MC	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118149	Terra AC-W11-T-RD-PC	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118155	Terra AC W7-S-R	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118156	Terra AC-W11-S-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118157	Terra AC W22-S-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118158	Terra AC W7-G5-R	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118159	Terra AC W22-G5-R	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118160	Terra AC W7-S-R-C	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC118161	Terra AC W22-S-R-C	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118162	Terra AC W22-S-RD-MC	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC118163	Terra AC-W11-T-RD-PC	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128169	Terra AC W7-G5-R-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128178	Terra AC W7-G5-R-C-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128177	Terra AC W7-S-R-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128176	Terra AC W7-S-R-C-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128175	Terra AC W11-G5-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128174	Terra AC W11-S-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128173	Terra AC W22-G5-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128172	Terra AC W22-G5-R-C-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128171	Terra AC W22-S-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128170	Terra AC W22-S-R-C-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128862	Terra AC W7-G5-RD-MC-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128861	Terra AC W7-S-RD-MC-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı

6AGC128860	Terra AC W22-G5-RD-MC-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128859	Terra AC W22-S-RD-MC-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128195	Terra AC E7-S-R-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128196	Terra AC E7-S-R-C-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128197	Terra AC E7-G5-R-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128198	Terra AC E7-G5-R-C-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128199	Terra AC E11-S-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128200	Terra AC E11-G5-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128201	Terra AC E22-S-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128202	Terra AC E22-S-R-C-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128203	Terra AC E22-G5-R-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128204	Terra AC E22-G5-R-C-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128205	Terra AC E7-G5-RD-MC-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128206	Terra AC E7-S-RD-MC-V2-0	Tek fazlı	2CMA100155R1000	B21 312-100	Tek fazlı
6AGC128207	Terra AC E22-G5-RD-MC-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı
6AGC128208	Terra AC E22-S-RD-MC-V2-0	Üç fazlı	2CMA100166R1000	B23 212-100	Üç fazlı

Enerji sayacı modelleri

1 fazlı Elektrikli Araç Şarj Cihazları için

ABB Parça Numarası: 2CMA241665R1000

Model: D11 15-M 40 Modbus

[D11 15-M 40 Modbus | ABB](#)



3 fazlı Elektrikli Araç Şarj Cihazları için

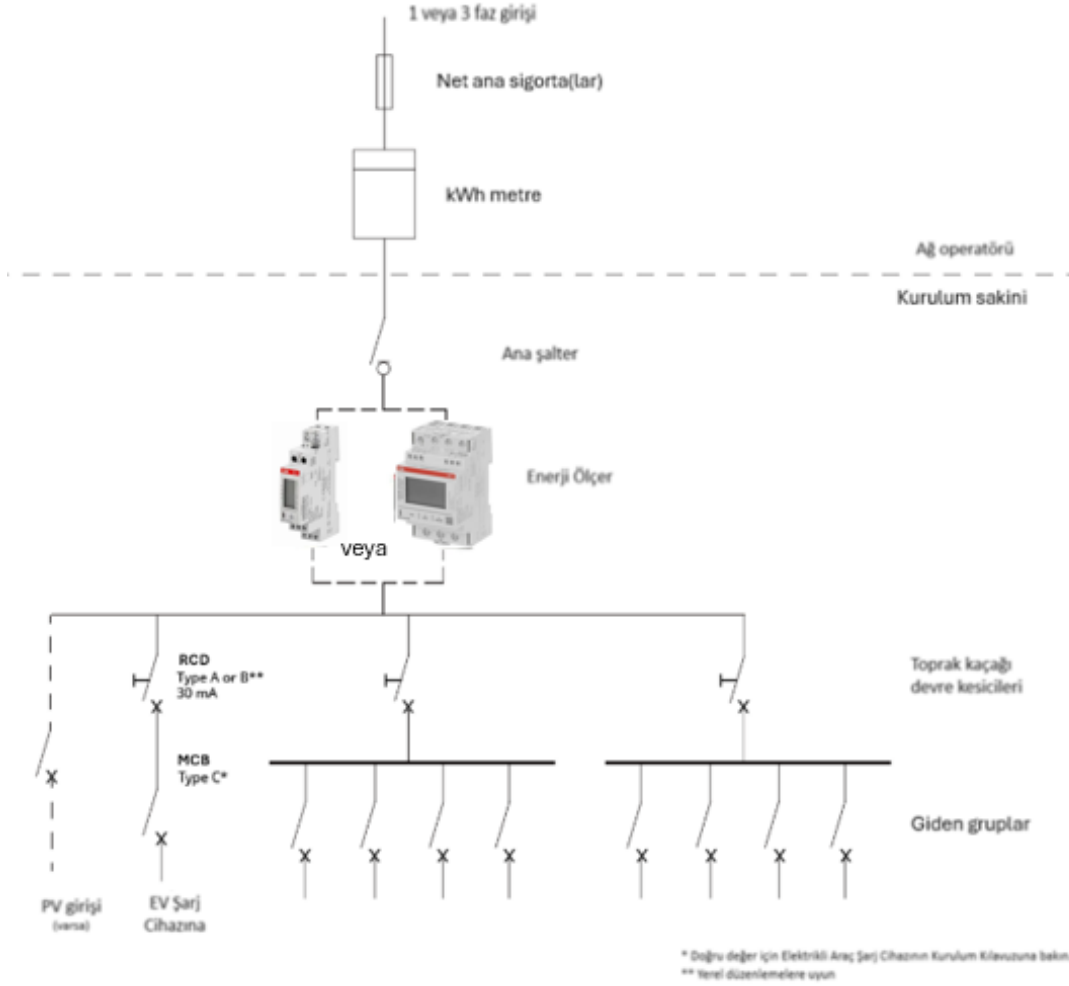
ABB Parça Numarası: 2CMA241765R1000

Model: D13 15-M 65 Modbus

[D13 15-M 65 Modbus | ABB](#)



Enerji sayacının mekanik ve elektrik kurulumu için birlikte verilen kurulum talimatlarını (Enerji sayacının ambalajında bulunabilir) kullanın veya kullanılan Enerji sayacının kılavuzlarını *Downloads available documents* bağlantısından indirin.

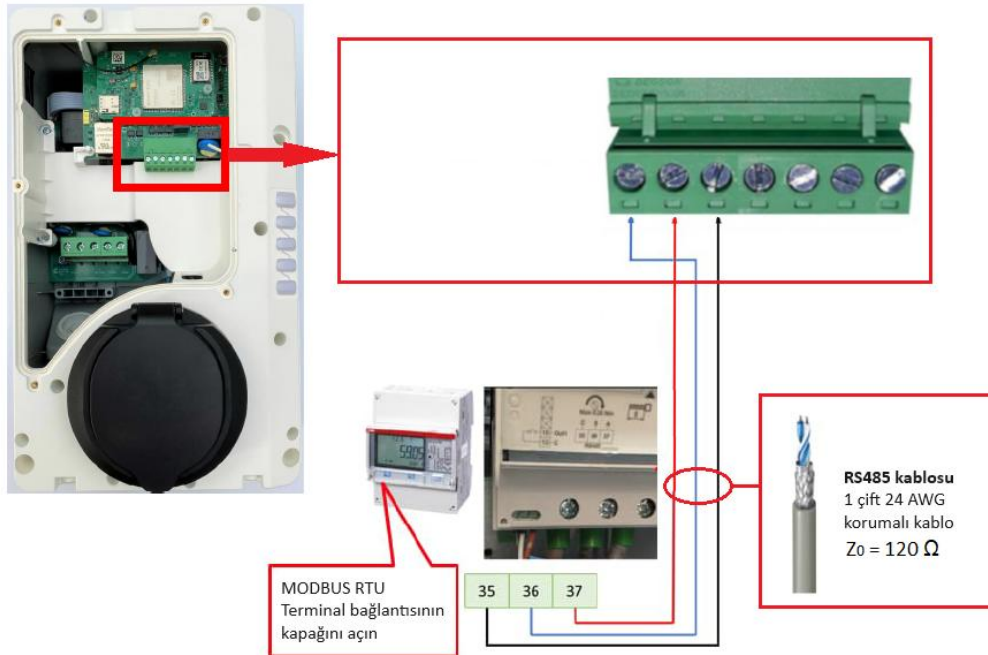


Ana şalter sadece kurulum sırasında güvenli bağlantı kesme içindir. Enerji sayacı, toplam ev tüketimini ölçen herhangi bir yere yerleştirilebilir – eğer kaçak akım röleniz gücü kapatabiliyorsa, o da bir ana şalter gibi çalışır.

Enerji sayacını ana şalterden sonra ve toprak kaçağı devre kesicileri ve devre kesicileri bulunan dağıtım kabininden önce takın. Yukarıdaki şekil tipik bir konut dağıtım kabini (Tüketici Birimi) örneğidir.

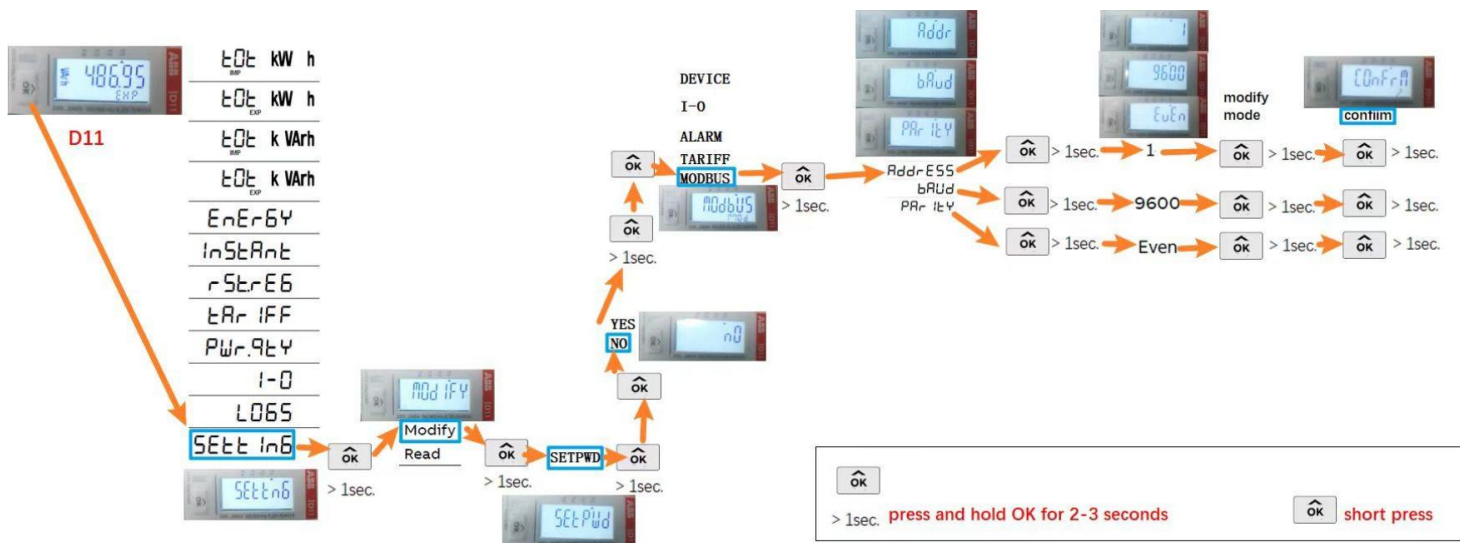


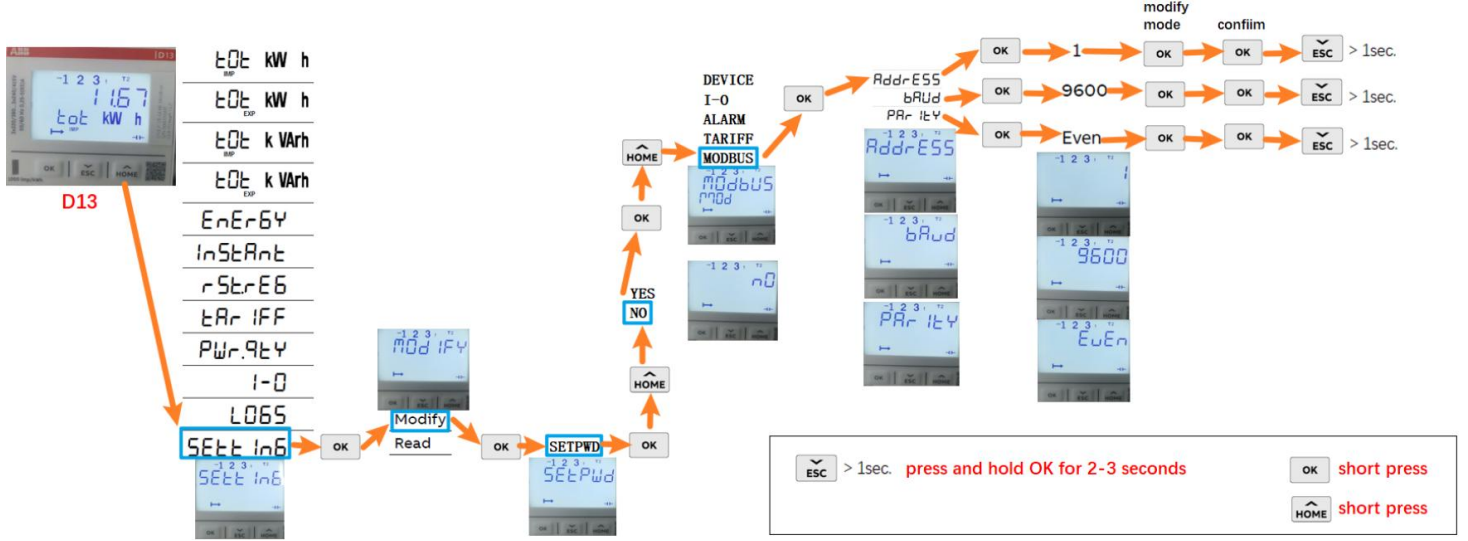
Uyarı - Enerji sayacı her zaman giriş tarafındaki sigortalarla korunmalıdır. Daha fazla bilgi için Enerji sayacının kurulum kılavuzlarına bakın.



Enerji Sayacı yapılandırması – değişiklik gerekmez

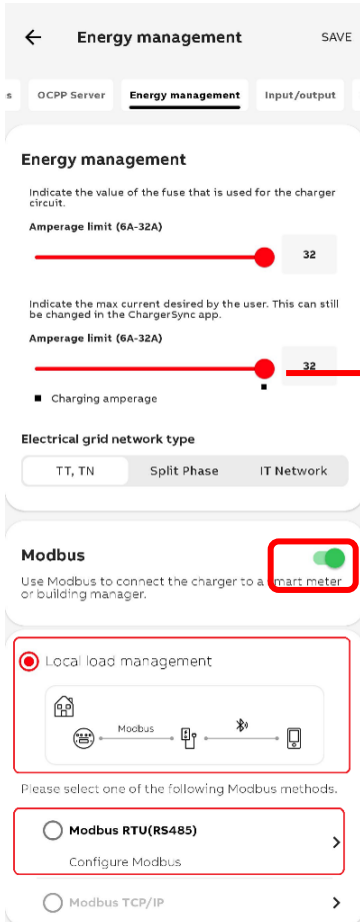
Aşağıdaki şekil Enerji sayacının varsayılan fabrika ayarlarını göstermektedir. Bunlar Load management için doğru ayarlardır ve değiştirilmemelidir.





Load management için TerraConfig devreye alma Uygulaması

Genel Elektrikli Araç şarj ayarları için lütfen çevrimiçi eğitime bakın – web sitesi bağlantısı: [TerraConfig App - Overview](https://www.chargedot.com/TerraConfig-App-Overview) (Chargedot.com)

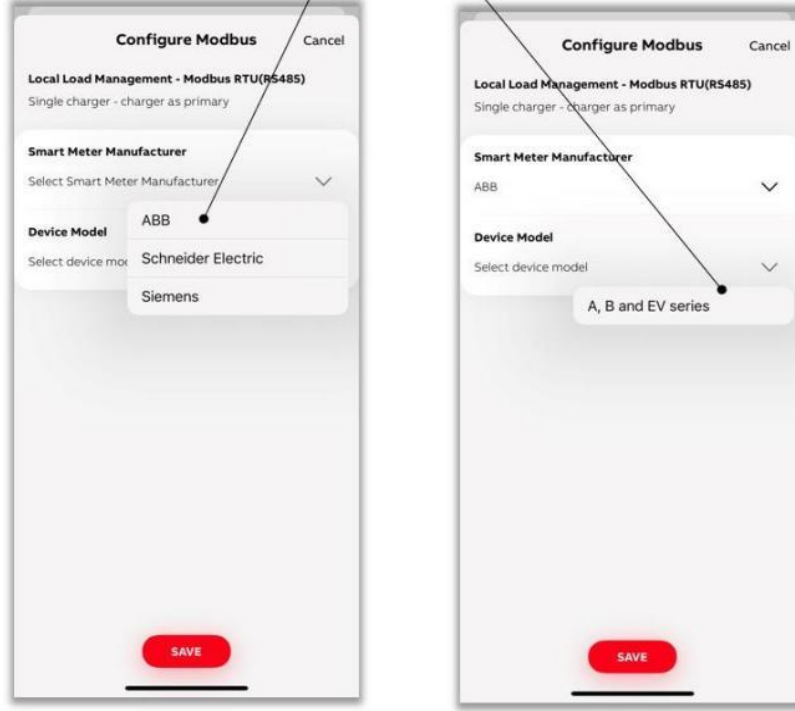


Load Management:
Local Load Management öğesini seçin
seçin: RTU(RS485)

→ Kullanıcı tarafından ayarlanabilen maksimum akımı ayarlamayın

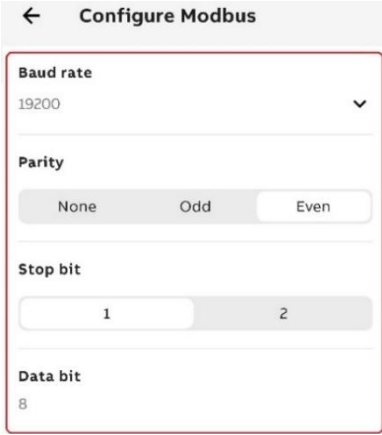
ABB ölçüm cihazı
seçme örneği

Example of
selecting ABB meter



SmartMeter Manufacturer açılan menüsünde '**ABB**' ögesini seçin.

Device Model açılan menüsünde doğru modelleri ögesini seçin.



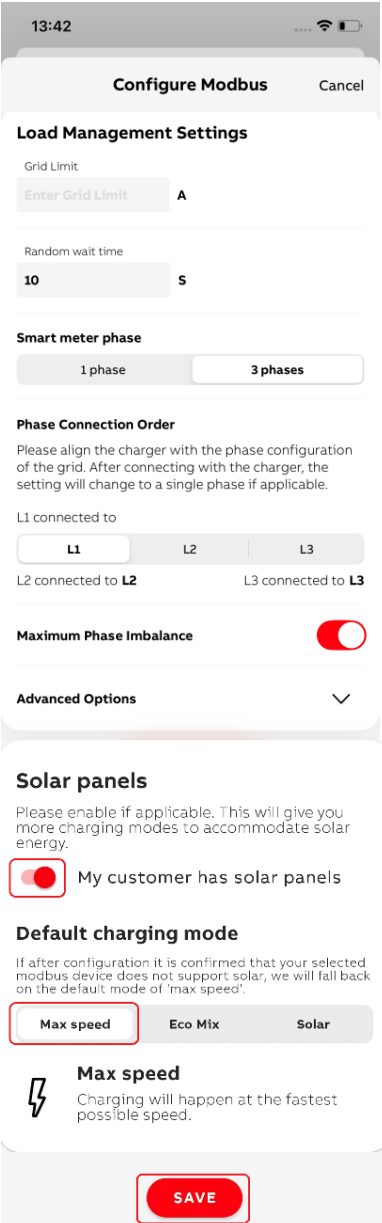
Baud Rate değerini '**9600**' olarak ayarlayın

Parity değerini '**Even**' olarak ayarlayın

Stop bit 1 ve **Data bit** 8 olmalıdır

NOT

Akıllı sayaç ve Elektrikli Araç Şarj Cihazı aynı değerlere sahip olmalıdır.



Grid limit: Yük dengeleme yapılması gereken şebeke bağlantısının maksimum sınırı (Amper cinsinden). Bu değeri ayarlamadan önce konut tesisatının ana sigortasının kontrol edin. Bu değer ana sigortadan daha yükseğe ayarlanmamalıdır!



'Akıllı sayaç fazının' ve 'Faz bağlantı sırasının' kurulum ayarlarına ve yerel düzenlemelere uygun olduğundan emin olun.

NOT:

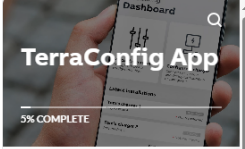
Güneş panelleri mevcutsa, yalnızca Maksimum hızı seçin

Asla EcoMix veya Solar'ı seçmeyin

Ayarları kaydetmek için **SAVE** düğmesine basın.

Yapılandırmayı Elektrikli Araç şarj cihazında saklamak için lütfen yapılandırmayı onayla ile bitirin.

Gelişmiş ayarlar/talimatlar için lütfen [TerraConfig App - Overview \(Chargedot.com\)](https://Chargedot.com/TerraConfig-App-Overview) bağlantısını takip edin ve Energy management bölümüne gidin sekmeleri takip edin.



- Onboarding to TerraConfig
- Commissioning a charger
- Select & connect a charger
- Configure settings
- Firmware update
- Network connection
- OCCP server - External backoffice
- Energy management**
- Input/Output
- Charging RFID cards

ELECTRICAL SETTINGS
SMART METER SETTING
SUPPORTED SMART METER
MODBUS SETTINGS

After selecting a meter to be connected, app automatically configure default values required to establish successful communication with meter.

Also, it possible to adjust values for that please refer to meter manual and select the preferred settings (e.g.) baud rate.

Maximum delta (in Ampere) between two separate phases that is to be pursued

Limit after which charger will react by **decreasing** the power output by a **significant** amount

Limit after which charger will react by **decreasing** the power output by a **small** amount

Limit after which charger will react by **increasing** the power output by a **small** amount

Charger output limit when there is **no network Connection/meter connection lost**

