

EVCHARGEKING

INSTALLATION AND USE INSTRUCTIONS
of the MTAP dongle

EVCHARGEKING TAP PRO

V1.1 - 12/2023

EVCHARGEKING



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1 Symbols



This product complies with all EU requirements in terms of safety, health and environmental protection.

2 MTAP, the interface between your digital meter and the ETAPpro charger

Congratulations on the purchase of your MTAP dongle.

The ETAPpro communicates with your digital meter via the Mtap dongle. This allows the charger to react to any change in your home consumption, solar panels, home batteries, etc... This allows you to make optimal use of your generated energy and also ensures that no overload can ever occur.

With the MTAPpro, you are also forever keeping up with the latest developments, because through our Over-The-Air updates, the device keeps itself permanently up to date.

3 Before installation and commissioning

Observe before installation and commissioning

Observe all safety regulations and instructions in this manual! Read the manual and data sheet carefully and keep them for future reference. The documents serve to help you:

- Using the product safely and correctly
- Improving service life and reliability
- Avoid damage to the device or property damage

Ask your electricity grid operator how to activate the P1 port on the digital meter. Indeed, this port must first be active on your digital meter before the MTAP dongle will fully function. The P1 port always transmits voltage to the MTAP and so the LEDs will start to light up but a data activation still needs to be done by your grid operator.

Also make sure YOU have an Ethernet connection available or a Wi-Fi signal.

4 Safety provisions/directions

4.1 General safety regulations


Failure to comply with the safety instructions may have serious consequences. EVChargeking / Some BV disclaims any liability for damages caused by non-compliance with the operating instructions, safety provisions or warnings on the device.

4.2 Connection, connector, adapter

The MTAP dongle should only be used in combination with the ETAPpro.

Plug the connector cable into the P1 port of the dongle and then plug the whole thing into the P1 port of your digital meter.



Then optionally* plug the Ethernet connector into the port with the symbol  *the Mtap also features WiFi

The dongle has a USB-C input but this should not be connected. After all, the dongle gets its working voltage from the digital meter. If you connect additional devices to the P1 port via the MTAP P1 out port you may need to provide additional power, this can be done via the USB-C input.

The MTAP fits completely behind the green cover of your digital meter.

Do not use the MTAP if you notice any damage to the device, or a connected cable is damaged.

4.3 Opening, conversion, repair, maintenance.

Any modification or repair to hardware or software of an Mtap-pro may only be carried out by specialist personnel of EVChargeking - Some BV. Before dismantling an allegedly defective product, EVChargeking technical customer support should be contacted in any case and the decision on the further procedure for handling the service case should be awaited.

Removing and damaging warnings affixed to the MTAP or opening the device will result in loss of all liability by EVChargeking / Some BV. The warranty also lapses in case of any modification or opening of an ETAPpro.

The device can be cleaned with a dry cloth. Do not use cleaning agents or solvents. Do not clean with a pressure washer or under running water.

4.4 Drain

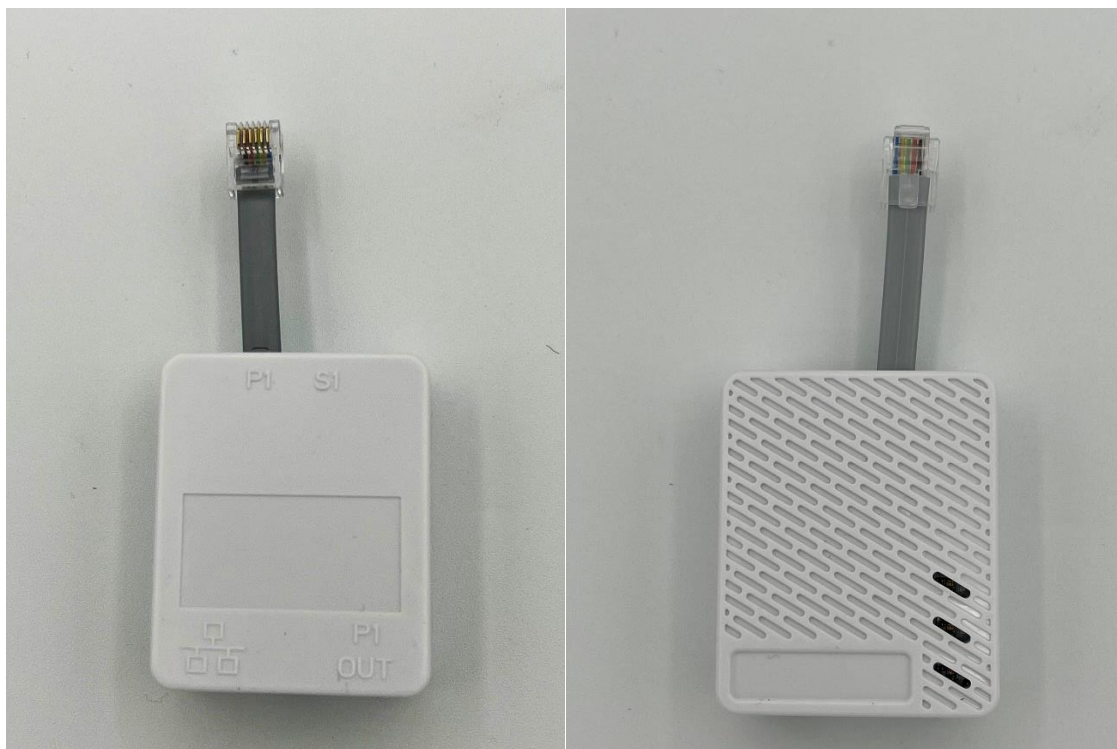
According to Directive 2012/19/EU (WEEE Directive), electrical appliances may not be disposed of as household waste after use. In accordance with national legal provisions, take the appliance to a collection point set up specifically for electrical appliances. Also dispose of the product packaging properly so that it can be recycled.



4.5 Legal directions.

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5 Product overview



P1 :standard connection to the digital meter

S1 : not active at the moment



: Ethernet

P1 out : "Passthrough" port. The signal from the meter is not simply split off but is actively rebroadcast by the processor/firmware. You can connect other devices here that also want to communicate with P1 port of the digital meter. If necessary, use a USB-C charger for the extra power needed (see below)



: LED status, see below for the different colours and their meaning.

USB-C port: If you use the P1 out port to connect an additional device to your digital meter, you may not have enough power from your digital meter for both the MTAP and the other device. You can solve this by connecting a USB-C charger to your MTAP.

6 Scope of delivery

Mtap dongle with connection cable

7 Technical data

| | |
|-----------------------------|---|
| Product name: | MTAP |
| Compatible with: | Sagemcom - Siconia Single-phase (S211) Three-phase (T211) |
| Environmental requirements: | -25°C ... +40°C 5% - 95% humidity |

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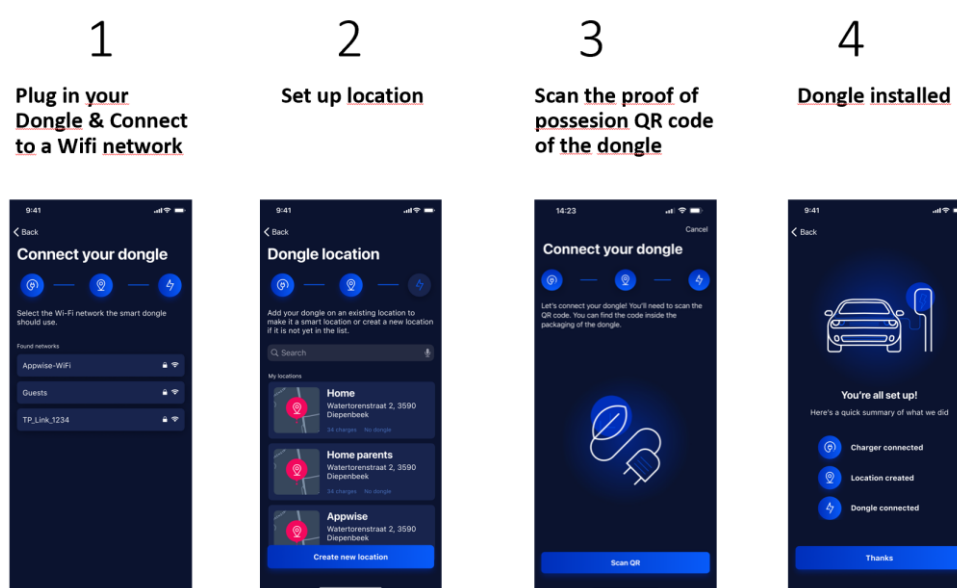
8 Commissioning / loading

8.1 Your first use / onboarding

Insert the supplied connection cable into the P1 port of the MTAP dongle. Then insert the other side of the connection cable into the P1 port of the digital meter. Ensure that the plug is always inserted COMPLETELY.

On your mobile phone, go to the ETAPpro App and follow the procedure described below in the App to configure your Mtap. For more information, consult the App guide of the ETAPpro app.

You are now ready to use the MTAP.



8.2 Smart charging with the ETAPpro

With the MTAPpro, you can use a whole range of smart settings to charge your car. After all, you now have a connection between your ETAPpro charger and your digital meter that will transmit the necessary readings to the charger.

By reading these values, the ETAPpro can provide the following functionalities:

- **Load Balancing:** your ETAPpro monitors household consumption and constantly adjusts the load capacity depending on that consumption so that you never exceed the total set consumption, and therefore fuses never blow due to charging your car.
- **Load Sharing:** your ETAPpro takes into account any other ETAPpros present and will share the available power between them. Multiple settings are possible here
- **Capacity tariff:** Your ETAPpro will also monitor your quarter-hourly consumption, and notify you when you risk generating a peak that would increase your monthly electricity bill. The load capacity can be automatically adjusted to avoid this. (As far as possible, a peak can still be generated by other consumers...). We call this **Peak shaving**
- **Charging with self-generated energy:** your ETAPpro can be set to:

- **Preferably** charges on self-generated energy, i.e. when no energy is generated the charging session continues but at the lowest possible power.
- **Maximum** charges on self-generated energy, i.e. when no energy is generated, the charging session is interrupted until when there is sufficient local energy production again.











Other functionalities will be added in the future through Over-The-Air updates, effortlessly ensuring that your ETAPpro remains constantly up-to-date, and can respond to the latest developments.

9 Troubleshooting

In case there is a problem with the device, in certain cases a message will be shown via the phone app and/or a visual indication will be given by a combination of signals via the 3 LEDs on the front of the device.

Before further investigating the cause of a problem, ensure that the connection cables and Ethernet cables are fully plugged into the MTAPpro,

The following table lists the possible error messages:

| LEDs | Status | Network status | Description |
|--|---|---|--|
|  Continuous | Connected to P1 |  | Valid meter ID obtained from P1 port digital meter |
|  Pulsating | Available Network link re- quired | Clutch needed | Provisioning status. Dongle is available, waiting to be connected to network |
|  Continuous | Connected modbus |  | Modbus slave found |
|  Smooth | No network | N/A | Waiting for network |
|  On and off smoothly | No connection with digital meter | N/A | Waiting for P1 meter ID or modbus slave ! Maybe P1 port on digital meter is not enabled in the portal |
|  Pulsating | Over The Air (OTA) update |  | Over The Air (OTA) update is in progress |
|  Continuous flashes | Error | N/A | An error occurred. E.g. too little voltage-> see USB-C port |