P1 extender set

In some cases, the distance between the smart meter and the connected web server/charging station is too large for a standard P1 cable. As a result, the signal is disrupted, with the result that the web server cannot function correctly.

With the P1 Extender set you can easily bridge this distance using a standard network (UTP) cable. The set consists of a charging station/web server module and a Smart meter module. You connect the Smart Meter module to your smart meter with a P1 cable. Then connect a network cable with a length of up to 80 meters to the module. Finally, at the other end, connect the web server/charging station module. No further configuration is required. Your web server/charging station will recognize your smart meter and immediately start recording data.
Suitable for smart meters with the DSMR 4 protocol and newer.

1. Connect:

Smart Meter Module

Connect the smart meter module to your smart meter with one of the supplied P1 cables

UTP cable

Connect one end of your UTP cable (Straight) to the smart meter module. The other end ends up at the web server/charging station. Make sure you are using a CAT5 (E) or CAT 6 cable and that it is equipped with RJ45 connectors

Charging station module

Connect the charging station module to the other end of the UTP cable. Then connect the charging station module to your web server/charging station with the second supplied P1 cable.

Status LED

If you have connected everything correctly, the status LED will light up on both modules. Next, check whether your web server/charging station is communicating with the smart meter.

1° Smart meter marking

2° RJ45 connection for UTP cable

3° Connection P1 cable

4° Status LRD (power supply)

5° Marking of charging station/web server

6° RJ45 connection for UTP cable

7° Connection P1 cable

8° LRD status (power supply)

2. Note:

- Activate the Belgian digital meters in advance to be able to work: via this link If there is a triangle above "GP" on the screen of the digital meter (GP is in laser marking below the screen) then the gates P1 and S1 are active.
- Only use the included P1 cables with the P1 extender modules.
- The P1 extender modules are powered from the smart meter. Are you using a P1 splitter to be able to connect yet another device to the smart meter? Then make sure that this splitter passes the power supply, and that each splitter port works autonomously, transmitting the original signal without modification.
- Look for a suitable splitter on the 2-wire website: https://www.2-wire.net/product/actieve-p1-poort-hub-splitter/

3. Technical data:

General:

P1 extender: set of 2 modules to bridge a longer distance (up to 80m) between the P1 port and the connected application via UTP cable.

Operating conditions:

Operating temperature range: 10 °C to 50 °C
Storage temperature range: -10 °C to 60 °C
Maximum humidity: 90 %, no moisture condensation
Max. mounting height : 2000m

Physical Properties:

Housing: plastic, self-extinguishing according to . UL94-V0
Degree of protection: IP20, EN 60529
Mounting indoors or in waterproof housing
Dimensions (H x W x L): 68x58x23mm- Weight: approx. 2x30 grams

Connections:

Power supply: from the digital meter
RJ12: connection P1
RJ45: UTP CAT5(E) or CAT6 Straight connection

Labels:

RoHS: Non-toxic, cf. WEEE/RoHS Directives
CE: In accordance with EMC and low voltage directive

4. Installation instructions

The installation is preferably carried out by someone with at least a basic knowledge of PC/networking.

5. Support

Would you like to have the product repaired in case of a possible defect? Please contact your supplier or order "inspection module" online.

6. Warranty provisions

The warranty period is two years from the date of delivery. The delivery date is the invoice date of purchase of the product by the consumer. If no invoice is available, the production date applies. The consumer is obliged to inform Qonnex bvba in writing of the lack of conformity, and this at the latest within two months after discovery. In the event of a lack of conformity, the consumer is only entitled to a free repair or replacement of the product, which is determined by Qonnex.
Qonnex is not responsible for a defect or damage resulting from incorrect installation, improper or negligent use, incorrect operation, transformation of the product, maintenance in violation of the maintenance instructions or an external cause such as moisture damage or damage due to overvoltage. The mandatory provisions in national legislation on the sale of consumer goods and the protection of consumers in countries where Qonnex sells directly or through distributors, agents or permanent representatives take precedence over the above provisions.

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