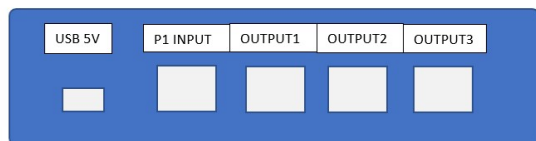


## P1 HUB: 1 to 3 active P1 ports



The P1 HUB module, or the active 'P1 port splitter' is a stand-alone module that reads the P1 port of the digital meter every 2 seconds and then transmits the data to the 3 active P1 port outputs, each with max.300mA power supply. On these 3 ports, linked P1 applications can retrieve P1 readings independently of each other and at their own pace. The P1 hub module comes with a USB 5V/1A power supply

### 1. Connect:



#### P1 port:

Connect the supplied 'RJ12 cross' cable to the P1 port of the digital meter and the P1 IN. The P1 HUB module supports both the Dutch (DSMR 2.x, 4.x, 5.x) and the Belgian (DSMR 5.x) digital meters. The module does not require any setting, data is copied one-to-one to the 3 outputs. The Dutch meters DSMR 2.x with a P1 port at 9600 baud are automatically converted to 115200 baud and also there without changing the data or the protocol. Auto-baud rate recognition 9600 or 115200 baud.

Maximum packet: 1800 bytes

Poll time: 2 seconds (LED1 on/off)

Power consumption: max 200mA via P1 port or via power supply (DSMR2.0)

#### USB Power Supply:

Connect the included USB mini B 5Volt/1A. This provides up to 300 mA of power supply current to each of the three outputs for the paired application.

#### 3 active P1 outputs:

Connect the 2-Wire P1 application (LoWi, PPC.04, ReMI+ external power supply, MiLo, RG.016) and/or the external application to it. Each output can be seen as an autonomous active P1 output with 300 mA power supply and speed 115200 baud. The original data is 100% retained, what goes into it comes out exactly the same.

- Outputs only work with USB power connected
- Maximum current consumption per port approx. 300mA.
- Minimum poll time: 2 seconds. (LED2-LED3 or LED4 on/off)
- Maximum waiting time: 200msec.

#### Action:

By default, data is requested from the P1 port every 2 seconds.

This data is then transmitted one-to-one to each of the three P1 outputs. These 3 outputs can each be queried by the linked application

#### LED:

There are 4 status LEDs on the module (L1-L4), one for each P1 port. And this shows the communication with the P1 port.

### 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.

### 3. Error Recognition:

If LED1 flashes several times, a P1 port may not be connected to the input, or a different baud rate may have been recognized. If this error occurs, after 8 attempts, the processor will reboot and try to connect to the P1 port again. As long as there is no good communication with the entrance, all exits will remain inactive!

### 4. Technical data:

#### General:

P1 hub: Standalone module for converting 1 to 3 active P1 ports each with 300mA power supply.

#### 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): 110x75x30mm- Weight: approx. 100 grams

#### Connections:

##### INPUTS:

- P1–PORT RJ11 6P6C: via cross-cable to P1-port meter P1 port DSMR2.0 (9600 baud) or DSMR4.0 – DSMR5.0 and BE (115200 baud)

USB power supply : type mini B 5V/min. 1A ...

##### EXITS:

3x P1 port 115200 baud max 300 mA

PROTOCOLS: DSMR2.0 – 4.0 – 5.0 EN-BE

#### Labels:

RoHS: Non-toxic, cf. WEEE/RoHS Directives

CE: In accordance with EMC and low voltage directive: HBES – EN 50090-2-2 and EN60950 – 1: 2006.

### 5. Installation instructions

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

### 6. Support

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

### 7. 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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