

P1 Port reader 4.0 (Galvanically isolated)

P1R-004

P1 port reader USB (special version)



Key features:

- 1** Allows reading and recording P1 messages coming from the Smart Meter via a USB interface.
- 2** Interworks with dedicated Smart Meter's "test applications", like e.g. "KEMA test tool".
- 3** All P1 port lines are galvanically isolated from USB port.
- 4** Compatible with DSMR 4.0, DSMR 4.2 and DSMR 5.0
- 5** Tested against major Smart Meters available on the Dutch market.
- 6** Additional PC applications (e.g. "P1 parser") available.

Description:

P1R-004 "P1 Port reader 4.0" device is designed to read and record P1 messages from the Smart Meter via a USB interface.

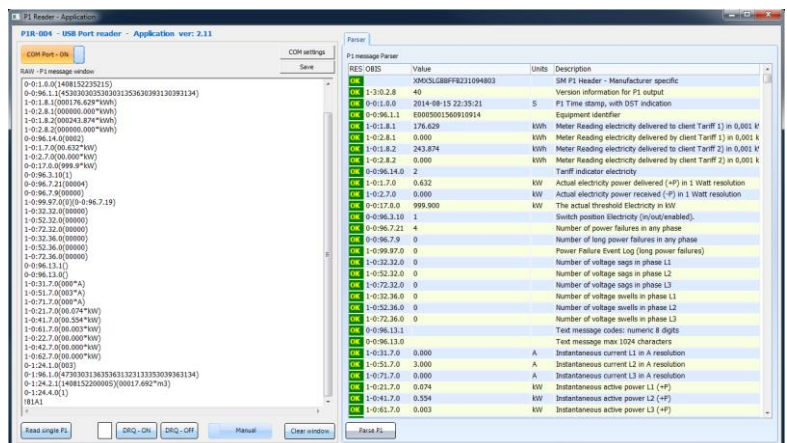
The device is equipped with an internal microprocessor, to secure communication with dedicated Smart Meter "test applications" like e.g. "KEMA test tool" and allows execution of various test scenarios and test scripts.

The microprocessor reads and interprets the commands sent to P1R-004 via USB port, e.g. to control the DRQ (Data Request) line.

The device is equipped with three LEDs, indicating a status of the "DATA Request" line, internal microprocessor state and USB activity.

The P1R-004 provides full galvanic isolation between P1 and USB ports, allowing fault-free operation even in harsh industrial environments.

Due to galvanic isolation, P1R-004 is not compatible with DSMR 2.2 meters.



Technical specification:

Compatible with Smart Meter standards:	DSMR 2.2, DSMR 4.0, DSMR 5.0
USB compatibility:	USB 2.0
P1 current consumption:	max: 17 mA
Peak working insulation voltage:	min: 565 V (according to: DIN-EN/IEC60747-5-5)
Insulation resistance:	$>10^9 \Omega$, at 150°C and $V_{IO} = 500V$
Ambient operating temperature:	-10°C to +55°C
Storage temperature:	-40°C to +70°C
Air humidity:	Max. 90% rel. humidity, non-condensing
Dimensions:	51 x 36 x 20 mm
Weight:	25 g
Warranty:	2 years

More info:

More info about this product, PC application and the latest documentation can be found on the following web page:

<http://www.tech4u.info/product-info/P1R-004/>



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