

P1 Port reader USB (Galvanically isolated)

P1U-002

P1 port reader USB



Key features:

- 1 Allows reading and recording P1 messages coming from Smart Meter via a USB interface.
- 2 Compatible with most operating systems (e.g. Windows, Linux and Mac)
- 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:

P1U-002 "P1 Port reader USB" device is designed to read and record P1 messages from the Smart Meter via a USB interface.

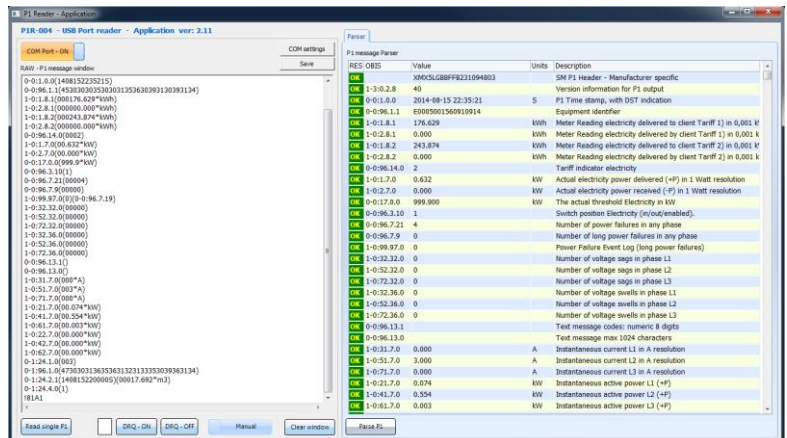
The device is equipped with a very reliable USB chip and it is compatible with most PC's operating systems (e.g. Windows, Linux or Mac).

Using P1U-002 device, the P1 port of the Smart Meter can be accessed by any PC application, which supports COM ports e.g. Hyper Terminal, PuTTY etc.

The device is equipped with a LED, indicating USB interface activity.

The P1U-002 provides full galvanic isolation between P1 and USB ports, allowing fault-free operation even in harsh industrial environments.

Due to galvanic isolation, P1U-002 is not compatible with DSMR 2.2 meters.



RES	OBIS	Value	Units	Description
0-1.0.0	1408152235215			SM P1 Header - Manufacturer specific
0-0.0.1	1408152235215	40		Version information for P1 output
1-0.1.8.1	000176.629*WWh	2014-08-15 22:35:21	S	P1 Time stamp, with DST indication
0-0.96.1.1	8000001500910914			Equipment identifier
0-0.1.8.1	176.629		kWh	Meter Reading electricity delivered to client Tariff 1) in 0,001 kWh
1-0.1.8.2	243.874		kWh	Meter Reading electricity delivered to client Tariff 2) in 0,001 kWh
0-0.96.14.0	2			Tariff indicator electricity
1-0.1.7.0	0.632		kW	Actual electricity power delivered (+P) in 1 Watt resolution
1-0.2.7.0	0.000		kW	Actual electricity power received (-P) in 1 Watt resolution
0-0.96.3.10	1			Switch position Electricity (v/out/enabled)
0-0.96.7.21	4			Number of power failures in any phase
0-0.96.7.9	0			Number of long power failures in any phase
1-0.99.97.0	0			Power Failure Event Log (long power failures)
1-0.32.32.0	0			Number of voltage sags in phase L1
1-0.32.32.0	0			Number of voltage sags in phase L2
1-0.32.32.0	0			Number of voltage sags in phase L3
1-0.32.36.0	0			Number of voltage swells in phase L1
1-0.32.36.0	0			Number of voltage swells in phase L2
1-0.32.36.0	0			Number of voltage swells in phase L3
0-0.96.13.1				Text message codes: numeric 8 digits
0-0.96.13.0				Text message max 1024 characters
1-0.31.7.0	0.000		A	Instantaneous current L1 in A resolution
1-0.51.7.0	3.000		A	Instantaneous current L2 in A resolution
1-0.71.7.0	0.000		A	Instantaneous current L3 in A resolution
1-0.21.7.0	0.074		kW	Instantaneous active power L1 (+P)
1-0.41.7.0	0.354		kW	Instantaneous active power L2 (+P)
1-0.61.7.0	0.003		kW	Instantaneous active power L3 (+P)

Technical specification:

Compatible with Smart Meter standards:	DSMR 2.2, DSMR 4.0, DSMR 5.0
USB compatibility:	USB 2.0
Operating system compatibility:	Windows, Linux, Mac
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/P1U-002/>



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