



Monitoring and control

REACT-MTR-1PH

The REACT-MTR-1PH is a four-quadrant energy meter designed for residential buildings application. With its compact design, it provides a wide variety of electrical measurements to FIMER inverters¹ via RS-485 communication bus.

REACT-MTR1-PH is a single phase meter up to 30 A.
The exceptional low power consumption of the meter, less than 1 VA, makes it economical in the long run.

Communication

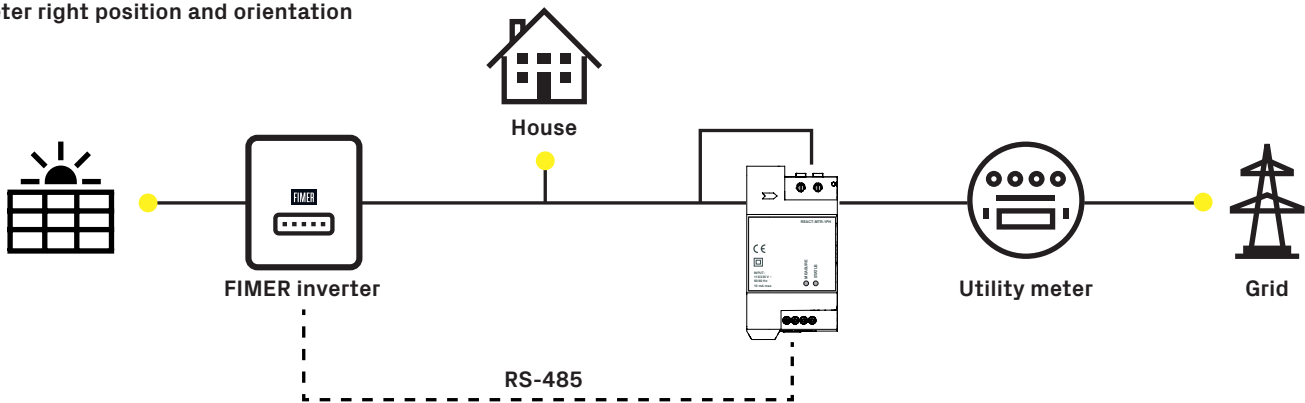
Data (electrical measurement) can be collected via built-in serial communication interface (RS-485).
Built-in leds show communication and grid power conditions

Electrical measurements

REACT-MTR-1PH meter support large number of electrical data readings. In particular:

- Active power, reactive power, apparent power,
- Voltage
- Current
- Power factor
- Frequency

Meter right position and orientation



Technical data and types

Type code	REACT-MTR-1PH
Voltage input	
Nominal voltage (V _{nom})	230 V AC
Voltage range	0.9 * V _{nom} - 1.1 * V _{nom}
Power dissipation voltage circuits	< 1 VA (0.6 W) total
Terminal wire area	0.5 - 4 mm ²
Recommended tightening torque	0.45 - 0.5 Nm
Current input	
Maximum current I _{max}	30 A
Minimum current I _{min}	0.15 A
Rated current I _r	5 A
cable max diameter	8 mm
Current sensor inner diameter	8.5 mm
Output	
Communication port	RS485
Communication protocol	Modbus RTU
Terminal wire area	0.14 - 1.5 mm ²
Recommended tightening torque	0.5 - 0.6 Nm
General data	
Mounting method	DIN 43880 rail
Frequency	50 Hz
Frequency range	47.5 hz - 52.5 hz
Power accuracy	active 1%, reactive 2%
Environmental	
Operating temperature	-25°C - +70°C
Storage temperature	-25°C - +85°C
Humidity	75% yearly average, 95% on 30 days/year
Altitude	< 2000 m
Protection class	IP 21
Standards and marking	
Standards	CE, IEC 61010-1, IEC91326-1
Physical	
Width, height, depth	53 mm, 100 mm, 64 mm
DIN modules	3

1) For the compatible FIMER inverter list refer to the document "Meters supported by FIMER string inverters and the VSN700-05 Data Logger" available at www.fimer.com/solarinverters

Remark. Features not specifically listed in the present data sheet are not include in the product



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