

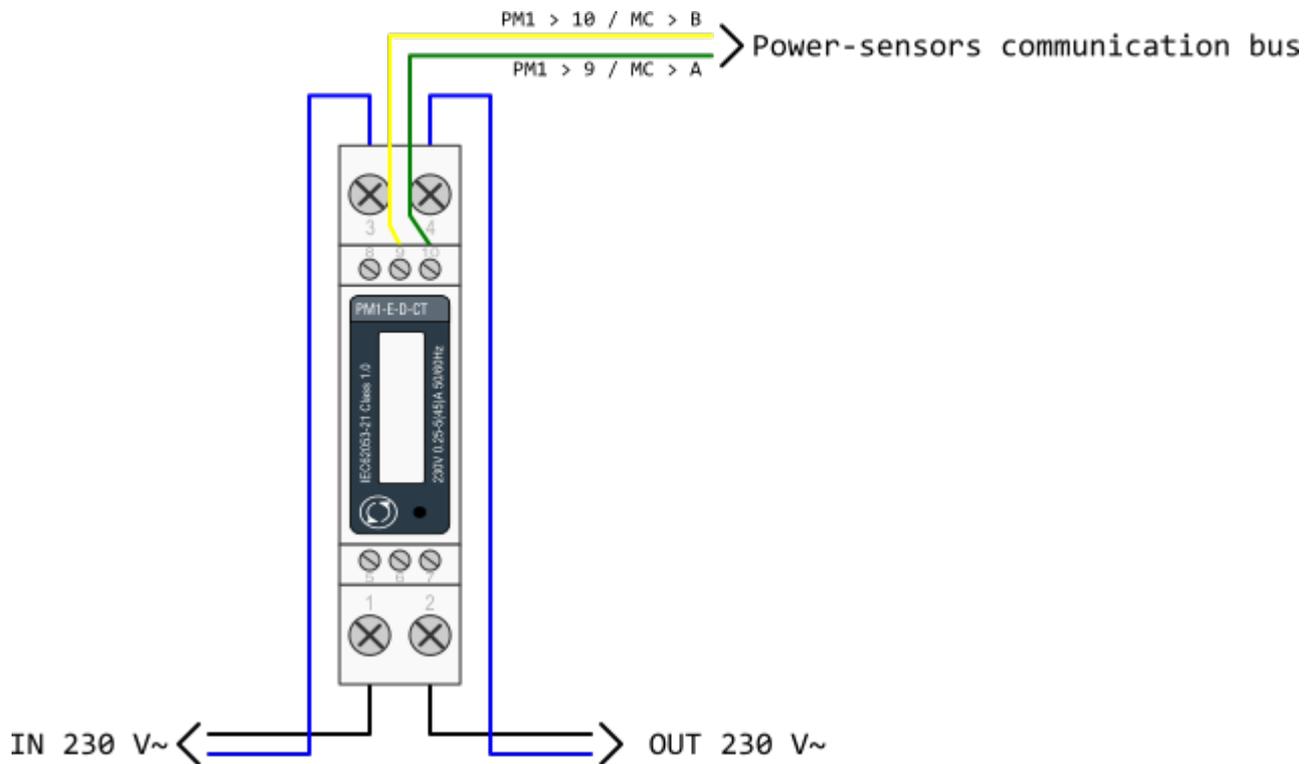


## Technical specifications

<b>Energy Measurements</b>	
Imported/Exported active energy	0 to 99999.99 kWh
Imported/Exported reactive energy	0 to 99999.99 kVARh
Total active energy	0 to 99999.99 kWh
Total reactive energy	0 to 99999.99 kVARh
<b>Measured Inputs</b>	
Nominal Voltage Input	(Ph+N) 176 to 276V
Max Continuous Voltage	120% of nominal
Nominal Input Current	5(45)A
Max Continuous Current	120% of nominal
Frequency	50Hz ( $\pm 10\%$ )
<b>Accuracy</b>	
Voltage	0.5% of range maximum
Current	0.5% of nominal
Frequency	0.2% of mid-frequency
Power factor	1% of unity (0.01)
Active power (W)	$\pm 1\%$ of range maximum
Reactive power (VAR)	$\pm 1\%$ of range maximum
Apparent power (VA)	$\pm 1\%$ of range maximum
Active energy (Wh)	Class 1 IEC 62053-21
Reactive energy (VARh)	$\pm 1\%$ of range maximum
<b>Modbus (RS485 Output for Modbus RTU &amp; Pulsed Output)</b>	
Baud rate	1200, 2400, 4800, 9600.
Parity	none / odd / even
Stop bits	1 or 2
RS485 network address	1 to 247
<b>Reference Conditions of Influence Quantities</b>	
Ambient temperature	23°C $\pm 1^\circ\text{C}$
Input waveform	50 or 60Hz $\pm 2\%$
Input waveform	Sinusoidal (distortion factor $< 0.005$ )
Auxiliary supply voltage	Nominal $\pm 1\%$
Auxiliary supply frequency	Nominal $\pm 1\%$
Auxiliary supply waveform (if AC)	Sinusoidal (distortion factor $< 0.05$ )
Magnetic field of external origin	Terrestrial flux
<b>Environment</b>	
Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Relative humidity	0 to 95%, non-condensing
Altitude	Up to 3000m
Warm up time	1 minute
Vibration	10Hz to 50Hz, IEC 60068-2-6, 2g
Shock	30g in 3 planes
<b>Mechanics</b>	
DIN rail dimensions	18mm x 90mm (WxH) per DIN 43880

Mounting	DIN rail (DIN 43880)
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## PM1-E-D Wiring



hiq\_pm1-e-d\_user\_manual\_2020.pdf  
hiq\_pm1-e-d-modbus\_protocol\_v2.2.pdf

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