POWER METER

PCE-PA 5500



- **Alternating voltage: 30 ... 264 V**
- **Alternating current direct: 0.025 mA ... 5 A**
- **Energy meter**
- **RS485 Modbus interface**
- **Accuracy class: 0.5**

The power meter is a compact instrument for measuring and displaying various network parameters in three-phase networks. This power meter can record the energy values of individual consumers or electrical feeders. In addition to the voltages and currents, the apparent, reactive and active power as well as the active and reactive energy are measured and shown on the 68 x 55 mm display. Furthermore, an RS485 interface is integrated into this power meter, which enables integration into existing systems. The RS485 interface communicates using the Modbus RTU protocol. This makes it possible to read out measured values from the power meter or to read and change device settings.

The power meter is designed for panel mounting with a cut-out of 96x96 mm. The scope of delivery includes a transparent door that can be attached to the front to protect the device against dust and moisture. In addition to the many measuring functions, the power meter offers alarm functions. A stable power supply is a top priority for every network operator. To avoid fluctuations in power quality and faults, grid monitoring, control and automation must be adapted and optimised.

Specification

AC voltage	
Measuring range	30 ... 264 V
Resolution	0,1 V
Accuracy	0.5 %
Overload	1500 VAC continuous 2500 VAC, 50 ... 60 Hz for one minute
Alternating current AC	
Measuring range	0,025 ... 5 A
Resolution	0,01 A
Accuracy	0.5 %
Overload	10x RMS for 1s.
Active power	
Measuring range	0,75 ... 1320 W
Resolution	0,01 W
Accuracy	0.5 %
Power factor	
Measuring range	-1 ... +1
Resolution	0.001
Accuracy	0.5 %
Frequency	
Measuring range	45 ... 65 Hz
Resolution	0,01 Hz
Accuracy	0.5 %
Harmonic measurement (harmonics)	
Measuring range	1 ... 50 (ordinal number)
Current range	20 ... 100 %
Voltage range	0.1 ... 100 %

General technical data	
Display type	LCD with backlight
Display size	3,4 Inch
Interface	RS485
Standard(s)	IEC 62053-22, GB/T18215.322-2008, IEC61010-1
Phase shift	0 ... 359.9 °
Panel cut-out	96x96 mm
Menu language	English
Protection class (device)	IP20
Power supply	100 ... 260 VAC, approx. 5 W
(Rechargeable) battery	1 x 3 V CR1225 , lithium
Capacity	50 mAh
Operating conditions	-20 ... 60 °C , 0 ... 95 % RH
Storage conditions	-20 ... 65 °C , 30 ... 80 % RH
Dimensions (L x W x H x D)	96 x 96 x 102 x 110 mm
Weight	474 g

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