CLAMP METER

PCE-PA 8000



- **Analysis of a network of 3 phases / 4 conductors, 3 phases / 3 conductors, 1**
- **phase / 2 conductors, 1 phase / 3 conductors**
- **Measures effective real value of current and voltage**
- **Measures active, apparent, and reactive power**
- **Power Factor (PF), phase angle (φ)**
- **Measures voltage up to 600 V**
- **Measures current up to 1200 A**
- **It meets the IEC 1010 and CAT III 600 V standards**
- **Integrated timer and calendar to record data**
- **Measured values are recorded in the included SD card**
- **Data is stored in Excel format for further study**

The PCE-PA 8000 Clamp Meter is able to measure and record the power in both single-phase or three-phase circuits. With the PCE-PA 8000 Clamp Meter you will be able to perform prolonged measurements. Measurement values are saved in xls format on the included SD card of our Clamp Meter to be easily analyzed on the computer. Measurement sample rate can be set from 2 to 7200 seconds. The PCE-PA 8000 Clamp Meter can also measure power and determine both power factor and phase angle. The clamps of the PCE-PA 8000 Clamp Meter can be used for cables with a diameter of 50 mm / 2.0 in. The PCE-PA 8000 is the ideal tool to be used in power supply networks. Its 3.7 in / 94 mm display allows you to read all measured values for a quick analysis as well as providing a view of the current, voltage, and power.

Specification

AC voltage	
Measuring range	10 ... 600 V
Resolution	0,1 V
Accuracy	±(0.5 % +0.5 V)
Overload	720 V RMS
Alternating current AC	
Measuring range	0,2 ... 10 A
Resolution	0,001 A
Accuracy	±(0.5 % +1 A)
Overload	1300 A with current clamp
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	10 ... 20 A
Resolution	0,01 A
Accuracy	±(0.5 % +1 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	0,2 ... 100 A
Resolution	0,01 A
Accuracy	±(0.5 % +5 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	100 ... 200 A
Resolution	0,1 mA
Accuracy	±(0.5 % +5 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	0,2 ... 1000 A
Resolution	0,1 mA
Accuracy	±(0.5 % +5 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	1000 ... 1200 A
Resolution	1 A
Accuracy	±(0.5% +5 A)
Frequency range	40 ... 1000 Hz
Active power	
Measuring range	0 ... 9,999 kW

General technical data	
Measuring functions	HOLD
Display type	LCD with backlight
Display size	3,7 Inch
Storage medium	SD card
Storage capacity	2 GB
Storage interval from	2 s
Storage interval to	120 min.
Interface	USB, RS232
Standard(s)	IEC 1010
Current consumption meter	300 mA DC
Current consumption current clamp	34 mA DC
Maximum cable diameter	50 mm
Safety standard	CAT III 600V
Overload protection	Voltage AC 720 V / current AC 1300 A
Dimensions	Current clamp: 210 x 85 x 33 mm
Measuring range selection	Automatic, Manual
Menu language	English, English (GB)
Protection class (device)	IP21
Power supply	9V
Connector type	Device-europlug
(Rechargeable) battery	8 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 % RH
Storage conditions	0 ... 50 °C , 0 ... 80 % RH
Dimensions (L x W x H)	225 x 125 x 64 mm
Weight	811,5 g

Resolution	0,001 kW
Accuracy	±(1 % +0.008 kW)
Active power	
Measurement range up to	10 kW
Measurement range from	99,99 kW
Resolution	0,01 kW
Accuracy	±(1% +0.08 kW)
Active power	
Measuring range	100 ... 999,9 kW
Resolution	0,1 kW
Accuracy	±(1% +0.8 kW)
Active power	
Measuring range	1 ... 9,999 MW
Resolution	0,001 MW
Accuracy	±(1 % +0.008 MW)
Reactive power	
Measuring range	0 ... 9,99 kVAR
Resolution	0,001 kVAR
Accuracy	±(1 % +0.008 kVAR)
Reactive power	
Measuring range	10 ... 99,9 kVAR
Resolution	0,01 kVAR
Accuracy	±(1 % +0.08 kVAR)
Reactive power	
Measuring range	100 ... 999,9 kVAR
Resolution	0,1 kVAR
Accuracy	±(1 % +0.8 kVAR)
Reactive power	
Measuring range	1 ... 9,9 MVAR
Resolution	0,001 MVAR
Accuracy	±(1% +0.008 MVAR)
Phase angle	
Measuring range	-180 ... +180 °
Resolution	0,1 °
Accuracy	±1 °
Apparent power	
Measuring range	0 ... 9,9 kVA
Resolution	0,001 kVA
Accuracy	±(1% +0.008 kVA)

Apparent power	
Measuring range	10 ... 99,99 kVA
Resolution	0,01 kVA
Accuracy	±(1% +0.08 kVA)
Apparent power	
Measuring range	100 ... 999,9 kVA
Resolution	0,1 kVA
Accuracy	±(1 % +0.8 kVA)
Apparent power	
Measuring range	1 ... 9,99 MVA
Resolution	0,001 MVA
Accuracy	±(1 % +0,008 MVA)
Power factor	
Measuring range	0 ... 1
Resolution	0.01
Accuracy	±0.04
Active energy	
Measuring range	0 ... 9,9 kWh
Resolution	0,001 kWh
Accuracy	±(1% +0.008 kWh)
Active energy	
Measuring range	10 ... 99,9 kWh
Resolution	0,01 kWh
Accuracy	±(1% +0.08 kWh)
Active energy	
Measuring range	100 ... 999,9 kWh
Resolution	0,1 kWh
Accuracy	±(1% +0.8 kWh)
Active energy	
Measuring range	1 ... 9,99 MWh
Resolution	0,001 MWh
Accuracy	±(1% +0.008 MWh)
Apparent energy	
Measuring range	0 ... 9,9 kVAh
Resolution	0,001 kVAh
Accuracy	±(1 % +0.008 kVAh)
Apparent energy	
Measuring range	10 ... 99,9 kVAh
Resolution	0,01 kVAh

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Accuracy	±(1% +0.08 kVAh)
Apparent energy	
Measuring range	100 ... 999,9 kVAh
Resolution	0,1 kVAh
Accuracy	±(1% +0.8 kVAh)
Apparent energy	
Measuring range	1 ... 9,9 MVAh
Resolution	0,001 MVAh
Accuracy	±(1% +0,008 KVAH)
Reactive energy	
Measuring range	0 ... 9,9 kVArh
Resolution	0,001 kVArh
Accuracy	±(1% +0.008 KVARh)
Reactive energy	
Measuring range	10 ... 99,9 kVArh
Resolution	0,01 kVArh
Accuracy	± (1% + 0.08 KVARh)
Reactive energy	
Measuring range	100 ... 999,9 kVArh
Resolution	0,1 kVArh
Accuracy	±(1% +0.8 KVARh)
Reactive energy	
Measuring range	1 ... 9,99 MVARh
Resolution	0,001 MVARh
Accuracy	±(1% +0.008 KVARH)
Frequency	
Measuring range	45 ... 65 Hz
Resolution	0,1 Hz
Accuracy	0.1 Hz