POWER-ANALYSATOR

PCE-PA 8300-1



- **Voltage measurement range of 1 V ... 6 V AC**
- **Current measurement range of 2 A ... 12 A AC**
- **Performance measurement range of kW ... 9.999 MW (VA/VAR)**
- **Simultaneous display of harmonics and waveform**
- **Graphic Phasor diagram**
- **Captures transients including dip, swell, and outage**
- **SD card memory**
- **LCD graphic display**
- **Durable enclosure**
- **Compatibility with various manufacturers' power clamps**
- **Adjustable back-up interval, allowing for long-term data collection**

This is a Clamp Meter that features a durable enclosure, SD card memory, a LCD graphic display, as well as apparent, effective, and reactive power measurement. The easy-to-use Clamp Meter is the ideal tool for performing power and harmonics analysis as well as for measuring network capacity.
Includes 3 current clamps for measurements up to 12 A AC

Specification

AC voltage	
Measuring range	10 ... 600 V
Accuracy	±(0.5 % +0.5 V)
Overload	720V RMS
Alternating current AC	
Measuring range	0,2 ... 10 A
Resolution	0,001 A
Accuracy	±(0.5 % +0.1 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 % +0.1 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	0,2 ... 100 A
Resolution	0,01 mA
Accuracy	±(0.5% +0.5 A)
Frequency range	40 ... 1000 Hz
Alternating current AC	
Measuring range	100 ... 200 A
Resolution	0,1 A
Accuracy	±(0.5% +0.5 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
Resolution	0,001 W

General technical data	
Measuring functions	HOLD
Frequency	40 ... 1000 Hz
Display Typ	LCD with illumination
Display size	3,7 Inch
Storage medium	SD card
Storage capacity	4 GB
Storage interval from	2 s
Storage interval until	120 min.
Interface	RS232
Norm(en)	IEC 1010
Current consumption measuring device	500 mA DC
Current consumption Current clamp	34 mA DC
Maximum cable diameter	50 mm
Safety standard	CAT III 600 V
Dimensions	Current clamp: 210 x 64 x 33 mm Clamping jaw: 86 mm (outside)
Measuring range selection	Automatic, Manual
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	9V
Connector type	Device Europlug
Battery/battery	8 x 1,5 V AA Battery (1,5V) , Alkali-Manganese
Battery capacity	3000 mAh
Operating conditions	0 ... 50 °C , 10 ... 80 %RH
Storage conditions	0 ... 50 °C , 10 ... 80 %RH
Dimensions (L x W x H)	225 x 125 x 64 mm
Weight	1010 g

PCE Americas Inc. dba PCE Instruments
1201 Jupiter Park Drive, Suite 8
Jupiter, FL 33458
USA

Phone: +1-561-320-9162
info@pce-americas.com

Accuracy	±(1 % +0.008 kW)
Active power	
Measuring range up to.	10 kW
Measuring range from.	99,99 kW
Resolution	0,01 kVAR
Accuracy	±(1% +0.08 kW) W
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 ... 9,999 kVAR
Resolution	0,001 kVAR
Accuracy	±(1 % +0.008 kVAR)
Reactive power	
Measuring range	10 ... 99,99 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 ... 9,999 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 ... 9,999 kVA
Resolution	0,001 kVA
Accuracy	±(1 % +0.008 kVA)
Apparent power	

Measuring range	10 ... 99,99 kVA
Resolution	0,01 kW
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 ... 9,999 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 ... 9,999 kWh
Resolution	0,001 kVAh
Accuracy	±(2% +0.008 kWh)
Active energy	
Measuring range	10 ... 99,99 kWh
Resolution	0,01 kWh
Accuracy	±(2 % +0.08 kWh)
Active energy	
Measuring range	100 ... 999,9 kWh
Resolution	0,1 kWh
Accuracy	±(2 % +0.8 kWh)
Active energy	
Measuring range	1 ... 9,999 MWh
Resolution	0,001 MWh
Accuracy	±(2% +0.008 MWh)
Apparent energy	
Measuring range	0 ... 9,999 kVAh
Resolution	0,001 kVAh
Accuracy	±(2 % +0.008 kVAh)
Apparent energy	
Measuring range	10 ... 99,99 kVAh
Resolution	0,01 kVAh
Accuracy	±(2 % +0.08 kVAh)

PCE Americas Inc. dba PCE Instruments
1201 Jupiter Park Drive, Suite 8
Jupiter, FL 33458
USA

Phone: +1-561-320-9162
info@pce-americas.com

Apparent energy	
Measuring range	100 ... 999,9 kVAh
Resolution	0,1 kVAh
Accuracy	±(2 % +0.8 kVAh)
Apparent energy	
Measuring range	1 ... 9,999 MVAh
Resolution	0,001 MVAh
Accuracy	±(2 % +0.008 MVAh)
Reactive energy	
Measuring range	0 ... 9,999 kVarh
Resolution	0,001 kVarh
Accuracy	±(2% +0.008 kVARh)
Reactive energy	
Measuring range	10 ... 99,99 kVarh
Resolution	0,01 kVarh
Accuracy	±(2 % +0.08 kVARh)
Reactive energy	
Measuring range	100 ... 999,9 kVarh
Resolution	0,1 kVarh
Accuracy	±(2% +0.8 kVARh)
Reactive energy	
Measuring range	1 ... 9,999 MVARh
Resolution	0,001 MVARh
Accuracy	±(2% +0.008 MVARh)
Frequency	
Measuring range	45 ... 65 Hz
Resolution	0,1 Hz
Accuracy	±0.1Hz
Harmonic measurement (harmonics)	
Measuring range	1 ... 50 (ordinal number)
Current range	0.2 ... 1200 A
Voltage range	10 ... 600 V