CLAMP POWER ANALYZER

PCE-GPA 50



- **Graphic display**
- **Data logger on Micro-SD card**
- **Measurement for 1 and 3 phases**
- **Temperature measurement with thermocouple**
- **Voltage measurement 1V ... 6V AC RMS**
- **Current measurement 5 ... 2 A AC RMS**
- **Current clamp opening 5 mm**
- **Harmonic distortion up to the 5th order**

The PCE-GPA 5 current clamp is used to measure the current of 1- or 3-phase loads. This clamp is especially characterized by its measuring range up to 2 A. Another highlight is the graphic display of the current clamp. Here, in addition to the numerical measured values, the waveform of the phase can also be displayed by the current clamp. Likewise, the current clamp can be used to measure voltages. As a result, the current clamp is able to calculate effective, apparent and reactive power with the help of the phase angle. In addition, the current clamp can measure other network parameters such as the energy, power factor and harmonic.
In addition to the extensive measuring functions, this current clamp distinguishes your data logger function. All measured values can be stored by the current probe directly on a micro SD card. The clamp is powered by 2 1.5V AA batteries. However, it is also possible to operate the current clamp with a power supply for long-term measurements.

Specification

Type K temperature	
Measuring range	-100 ... +199,9 °C
Resolution	0,1 °C
Accuracy	±(1 % +1°C)
Type K temperature	
Measuring range	200 ... 1300 °C
Resolution	1 °C
Accuracy	±(1% +2°C)
AC voltage	
Measuring range	10 ... 600 V
Resolution	0,1 V
Accuracy	±(0.5 % ... 3 digits)
Overload	720V RMS
Alternating current AC	
Measuring range	5 ... 100 A
Resolution	0,01 mA
Accuracy	±(1 % +0.5 A)
Overload	2100 A
Alternating current AC	
Measuring range	100 ... 200 A
Resolution	0,01 A
Accuracy	±(1 % +0.5 A)
Alternating current AC	
Measuring range	200 ... 1000 A
Resolution	0,1 A
Accuracy	±(1 % +5 A)
Alternating current AC	
Measuring range	1000 ... 2000 A
Resolution	0,1 A
Accuracy	±(1 % +5 A)
Active power	
Measuring range	0 W ... 9,999 MW
Resolution	0,001 W
Accuracy	±(1.5% of reading +20 digits)
Reactive power	
Measuring range	0 VAR ... 9,999 MVAR
Resolution	0,001 VAR
Accuracy	±(1.5% of reading +20 digits)

General technical data	
Measuring functions	HOLD
Frequency	40 ... 1000 Hz
Display Typ	Graphic LCD
Display size	2,4 Inch
Measuring rate	1 s
Storage medium	Micro SD card
Storage interval from	2 s
Storage interval until	7200 min.
Interface	RS232
Current consumption measuring device	60 mA DC
Maximum cable diameter	50 mm
Automatic power-off	10 min.
Eingangsimpedanz	10 M Ω
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	9V / 800 mA
Connector type	Device Europlug
Battery/battery	2 x 1,5 V AA Battery (1,5V) , Alkali-Manganese
Battery 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)	280 x 106 x 47 mm
Weight	595 g

Phase angle	
Measuring range	-180 ... +180 °
Resolution	0,1 °
Accuracy	±1 ° x PF
Apparent power	
Measuring range	0 VA ... 9,999 MVA
Resolution	0,001 VA
Accuracy	±(1.5% of reading +20 digits)
Power factor	
Measuring range	0 ... 1
Resolution	0.001
Accuracy	±0.04
Active energy	
Measuring range	0 kWh ... 9,999 MWh
Resolution	0,001 kWh
Accuracy	±(1.5% of reading +20 digits)
Apparent energy	
Measuring range	0 kVAh ... 9,999 MVAh
Resolution	0,001 kVAh
Accuracy	±(1.5% of reading +20 digits)
Reactive energy	
Measuring range	0 kVarh ... 9,999 MVARh
Resolution	0,001 kVarh
Accuracy	±(1.5% of reading +20 digits)
Frequency	
Measuring range	45 ... 65 Hz
Resolution	0,1 Hz
Accuracy	±0.2Hz
Harmonic measurement (harmonics)	
Measuring range	1 ... 50 (ordinal number)