

Clamp Meter PCE-GPA 50



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Current clamp up to 2000 A / TRMS measurement / Power measurement / Harmonic analysis / Graphic display with lighting / Data storage / Mains and battery operation

The PCE-GPA 50 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 2000 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.

- ▶ Graphic display
- ▶ Data logger on Micro-SD card
- ▶ Measurement for 1 and 3 phases
- ▶ Temperature measurement with thermocouple
- ▶ Voltage measurement 10V ... 600V AC RMS
- ▶ Current measurement 5 ... 2000 A AC RMS
- ▶ Current clamp opening 50 mm
- ▶ Harmonic distortion up to the 50th order

Specifications

Type of measurement	Measuring range	Resolution	Accuracy
AC voltage AC V	10 ... 600V	0.1V	± (0.5% ... 3 digits)
	Peak to peak	0.1V	± (5% ... 30 digits)
AC AC A	5 ... 2000 A	< 100 A: 0.01 A	< 200 A: ± (1% + 0.5 A)
		< 1000 A: 0.1 A	> 200 A: ± (1% + 5 A)
	Peak to peak	> 1000 A: 1 A	± (5% + 30 digits)
Power factor (PF)	0 ... 1	0.001	± 0.04
Phase angle	-180° ... 180°	0.1°	± 1° x PF
Frequency	45 ... 65 Hz	0.1 Hz	± 0.2 Hz
Active, blind & apparent power	0 ... 9,999 m (W / VA / VAR)	0.1 ... 0.001 M (W / VA / VAR)	± (1.5% + 20 digits)
Harmonic AC V	1 ... 20th order	0.1V	± (2% + 5 digits)
	21 ... 50 okay	0.1V	± (4% + 5 digits)
Harmonic AC A	1 ... 20th order	< 100 A: 0.01 A	± (2% + 5 digits)
		< 1000 A: 0.1 A	
Alternating current		> 1000 A: 1 A	± (4% + 5 digits)
Harmonic AC V%	1 ... 20th order	0.1%	± (2% + 10 digits)
	21 ... 50 okay	0.1%	± (4% + 20 digits)
Absolute harmonic distortion	0 ... 20%	0.1%	± (2% + 5 digits)
	20.1 ... 100%	0.1%	± (6% + 10 digits)
Temperature type K thermocouple	-100 ... 199.9°C / -148 ... 391.8°F	0.1°C / 0.18°F	± (1% + 1°C / 1.8°F)
	200 ... 1300°C / 392 ... 2372°F	1°C / 1.8°F	± (1% + 2°C / 3.6°F)
Display	Graphic LCD		
AC V input impedance	10 MOhm		

More information

More product info



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Frequency range	40 Hz ... 1 kHz
Current Probe	
Calibrated frequency	45 ... 65 Hz
Current Probe	
Overload protection	AC V: 720V RMS AC A: 2100 A
Data storage	Micro SD card
Refresh rate	1 second
Display	
Storage rate	2 ... 7200s
Data storage	
Storage format	XLS
Interface	Serial interface for live presentation to PC (SOFT-LUT-USB is required)
Power supply	2 x 1.5V AA battery 9V / 800-mA power supply
Current consumption	60-mA DC
Jaw Capacity	50 mm
Operating conditions	0 ... 50°C / 32 ... 122°F,max. 80% rh
Weight	About 595 g / 1.3 lbs
Dimensions	280 x 106 x 47 mm / 11 x 4.2 x 1.9 in

Subject to change