

Technical Current Clamp PCE-GPA 62

Three-Phase Current Clamp with network analyzer / power and energy meter (real time) with data logger, graphic display, interface for PC and software

The Three-Phase Current Clamp (Graphic Power Quality Analyzer) PCE-GPA 62 is used for single-phase or three-phase measurements of the active, reactive and apparent power, power factor, phase angle, energy, voltage, current as well as peaks and harmonics up to 50° of the harmonic waveform. The Three-Phase Current Clamp PCE-GPA 62 comes with a built-in graphic display to show network analyzer values. Measured values can be both recorded and transferred to a PC for further analysis. The Three-Phase Current Clamp PCE-GPA 62 is a professional handheld device to determine several parameters. Thanks to the backlight display, it is possible to get an accurate reading of measured values even with poor light conditions. Although the Three-Phase Current Clamp PCE-GPA 62 comes calibrated from the manufacturer, an optional laboratory calibration and certificate, that meets ISO standards, can be ordered separately with the device or when an annual recalibration is required.

- Real-time test, register and measurement of voltage and current (real effective)
- Measures power factor and phase angle, frequency, energy, active, reactive and apparent power (single-phase or three-phase in symmetrical networks).
- Max. conductor diameter: 55 mm
- Graphic display
- Auto shut-off after 15 min. (this function may be disabled)
- Optional ISO calibration

Technical Specifications

Voltage measurement	4,0 ... 600,0 V RMS value $\pm 0,5$ % of the measured value ± 5 digits / 0,1 V
Voltage peaks (> 10V)	50 Hz - 60 Hz / ± 5 % ± 50 digits
Current measurements	4,0 ... 1500,0 A real ± 1 % V. of the measured value ± 5 digits / 0,01 A
Current peaks (> 20A)	50 Hz - 60 Hz / ± 5 % ± 50 digits
Active power P	10 W ... 9999 kW in 5 measurement ranges ± 1 % of the value + 20 digits (>20 V y >20 A) ± 2 % of the value + 40 digits (>20 V y >20 A) 0,1 W ... 1 kW according to the measurement range
Apparent power S	10 VA ... 9999 kVA in 5 measurement ranges ± 1 % of the value + 20 digits (>20 V y >20 A) ± 2 % of the value + 40 digits (>20 V y >20 A) 0,1 VA ... 1 kVA according to the measurement range

Reactive power Q	10 VAr ... 9999 kVAr in 5 measurements ranges ± 1 % of the value + 20 digits (>20 V y >20 A) ± 2 % of the value + 40 digits (>20 V y >20 A) 0,1 VAr ... 1 kVAr according to the measurement range
PF power factor	0,000 ... 1,000 ± 0,04 (>20 V >20 A) / 0,001 ± 0,1 (>20 V >20 A) / 0,001
Phase angle	-180 ... +180 / ±1 / 0,1 0 ... +360 / ±1 / 0,1
Frequency measurement (U > 50 V)	46 ... 65 Hz ±0,3 Hz / 0,1 Hz
Active energy	0 ... 999.999 kWh ± 1 % of the value + 20 digits
Apparent energy	0 ... 999.999 kVAh ± 1 % of the value + 20 digits
Reactive energy	0 ... 999.999 kVarh ± 1 % of the value + 20 digits
Harmonics in the voltage (relative) 50 - 60 Hz > 80 V AC	1 - 20 th / ± 2 % / 0,1 % 21 - 50 th / ± 4 % of the value ± 2 % / 0,1 %
Harmonics in the voltage (absolute) 50 - 60 Hz > 80 V AC	1 - 20 th / ± 2 % / 0,1 % 21 - 50 th / ± 4 % of the value ± 0,5 % / 0,1 %
Harmonics in the current (relative) 50 - 60 Hz > 80 V AC	1 - 20 th / ± 2 % / 0,1 % 21 - 50 th / ± 4 % of the value ± 2 % / 0,1 %
Harmonics in the current (absolute) 50 - 60 Hz > 80 V AC	1 - 20 th / ± 2 % of the value ± 0,4 A / 0,1 A 21 - 50 th / ± 4 % of the value ± 0,4 A / 0,1 A
Total harmonic distortion (THD-F) 50 - 60 Hz > 80 V y > 20 A	0,0 - 20 % / 2 % / 0,1 % 20,1 - 100 % / ± 6 % of the value ± 1 % / 0,1 % 100,1 - 999,9 % / ± 10 % of the value ± 1 % / 0,1 %
Max. clamp opening	55 mm
Range selection	auto
Overload indication	"OL = Overload
Memory	50.000 readings
Interface	USB
Software and data cable	included in the delivery. They can be used with Win 2000, XP, y ME
Display	graphic LCD display, 128 x 64 with backlight
Power supply	2x 1,5 V AA batteries
Energy consumption	aprox. 10 mA
Dimensions	271 x 112 x 46 mm
Weight	650 g with batteries

Operating conditions	85 % max. R.H. / -10 ... + 50 °C
Protection / Standards	CAT III 600 V / EN 61010-2-032

Delivery contents:

- 1 x Three-Phase Current Clamp PCE-GPA 62
- 2 x isolated measuring pins with 2 m of cable each
- 2 x batteries
- 1 x carrying case
- 1 x USB cable for a PC
- 1 x software (in English) and user's manual