

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

|                                                                 |                                                                                                                                                                                                            |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactive power Q                                                | 10 VAr ... 9999 kVAr in 5 measurements ranges<br>± 1 % of the value + 20 digits (>20 V y >20 A)<br>± 2 % of the value + 40 digits (>20 V y >20 A)<br>0,1 VAr ... 1 kVAr according to the measurement range |
| PF power factor                                                 | 0,000 ... 1,000<br>± 0,04 (>20 V >20 A) / 0,001<br>± 0,1 (>20 V >20 A) / 0,001                                                                                                                             |
| Phase angle                                                     | -180 ... +180 / ±1 / 0,1<br>0 ... +360 / ±1 / 0,1                                                                                                                                                          |
| Frequency measurement (U > 50 V)                                | 46 ... 65 Hz<br>±0,3 Hz / 0,1 Hz                                                                                                                                                                           |
| Active energy                                                   | 0 ... 999.999 kWh<br>± 1 % of the value + 20 digits                                                                                                                                                        |
| Apparent energy                                                 | 0 ... 999.999 kVAh<br>± 1 % of the value + 20 digits                                                                                                                                                       |
| Reactive energy                                                 | 0 ... 999.999 kVarh<br>± 1 % of the value + 20 digits                                                                                                                                                      |
| Harmonics in the voltage (relative)<br>50 - 60 Hz > 80 V AC     | 1 - 20 th / ± 2 % / 0,1 %<br>21 - 50 th / ± 4 % of the value ± 2 % / 0,1 %                                                                                                                                 |
| Harmonics in the voltage (absolute)<br>50 - 60 Hz > 80 V AC     | 1 - 20 th / ± 2 % / 0,1 %<br>21 - 50 th / ± 4 % of the value ± 0,5 % / 0,1 %                                                                                                                               |
| Harmonics in the current (relative)<br>50 - 60 Hz > 80 V AC     | 1 - 20 th / ± 2 % / 0,1 %<br>21 - 50 th / ± 4 % of the value ± 2 % / 0,1 %                                                                                                                                 |
| Harmonics in the current (absolute)<br>50 - 60 Hz > 80 V AC     | 1 - 20 th / ± 2 % of the value ± 0,4 A / 0,1 A<br>21 - 50 th / ± 4 % of the value ± 0,4 A / 0,1 A                                                                                                          |
| Total harmonic distortion (THD-F)<br>50 - 60 Hz > 80 V y > 20 A | 0,0 - 20 % / 2 % / 0,1 %<br>20,1 - 100 % / ± 6 % of the value ± 1 % / 0,1 %<br>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<br>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