POWER ANALYZER

PCE-830-1



- **Analysis of a network of 3 phases / 4 conductors, 3 phases / 3 conductors, 1**
- **phase / 2 conductors, 1 phase / 3 conductors**
- **Measures effective real value (V 123 and I 123)**
- **Measures active power (W, KW, MW, GW)**
- **Measures apparent and reactive power (KVA, KVAR)**
- **Power Factor (PF), phase angle (φ)**
- **Measures energy and work (Wh, KWh, KVARh, PFh)**
- **Measures current from .1 mA to 3 A, allowing for the reserve power of a**
- **factory to be determined**
- **Large LCD that shows up to 35 parameters simultaneously (3P4W [=3 phases/4**
- **conductors])**

The Clamp Meter is used for measuring one to three phases of electrical quantities for alternating current (AC). This 3-Phase Clamp Meter also measures parameters such as voltage, current, frequency, harmonics, and power as well as indicating, according to standard EN50160, harmonic values, interharmonics, and asymmetrics. Interference, such as interruptions, leaks, overloads, or transience (from 16 µs) are detected with their corresponding values. The backlit LCD, with high resolution, can show up to 35 parameters simultaneously. Up to 3 clips can be attached at the same time to the Clamp Meter. In data logger mode, it can save up to 17,470 readings (3 phases / 4 conductors), in a simpler set up (1 phase / 2 conductors) it can save up to 52,400 readings, split into 85 groups. All this makes the Clamp Meter the ideal instrument for taking measurements over long durations. Measurement values obtained can be sent to a computer and be processed with the included analysis software. The device comes with everything needed to be measuring and analysing from the moment it arrives. Although the Clamp Meter comes calibrated from the manufacturer, an optional laboratory calibration and certificate, that meets ISO standards, can be ordered separately with the device or when a recalibration is required.

Specification

AC voltage	
Measuring range	20 ... 500 V
Accuracy	±0.5% ±5 digits
Alternating current AC	
Measuring range	0,04 ... 100 A
Accuracy	±0.5% ±0.05 A
Overload	Overload protection AC 200 A
Phase angle	
Measuring range	-180 ... +180 °
Accuracy	±1°
Power factor	
Measuring range	0 ... 1
Accuracy	±0.04
Frequency	
Measuring range	45 ... 65 Hz
Resolution	0,1 Hz
Accuracy	0.1 Hz

General technical data	
Measuring functions	HOLD
Frequency	50 ... 60 Hz
Display Typ	LCD with illumination
Display size	4,9 Inch
Storage medium	Internal memory
Storage capacity	52420 Values
Storage interval from	2 s
Storage interval until	3000 min.
Interface	RS232, USB
Norm(en)	IEC 61010
Maximum cable diameter	30 mm
Safety standard	CAT III 600 V
Menu language	English (US)
Power supply	12V
Connector type	Device Europlug
Battery/battery	8 x 1,5 V AA Battery (1,5V) , Alkali-Manganese
Battery capacity	3000 mAh
Operating conditions	-10 ... 50 °C , 0 ... 75 %RH
Storage conditions	-20 ... 60 °C , 0 ... 75 %RH
Dimensions (L x W x H)	257 x 155 x 57 mm
Other dimensions	Current clamp PCE-6801 210 x 62 x 36 mm
Weight	1160 g
Other weights	Strommesszange PCE-6801 200g