CLAMP METER

PCE-830-2-ICA



- **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)**

The PCE-830 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 PCE-830 Clamp Meter the ideal instrument for taking measurements over long durations.

Specification

AC voltage	
Measuring range	20 ... 500 V
Accuracy	±0.5 % ±5 digits
Alternating current AC	
Measuring range	0,04 ... 1000 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 type	LCD with backlight
Display size	4,9 Inch
Storage medium	Internal memory
Storage capacity	52420 Values
Storage interval from	2 s
Storage interval to	3000 min.
Interface	RS232, USB
Standard(s)	IEC 61010
Maximum cable diameter	55 mm
Safety standard	CAT III 600V
Menu language	English
Power supply	12V
Connector type	Device-europlug
(Rechargeable) battery	8 x 1,5 V AA battery , Alkali-manganese
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-6802 244 x 97 x 46 mm
Weight	1160 g
Other weights	Current clamp PCE-6802 600g