DIGITAL POWER CLAMP METERS

PCE-PCM 1



- **Active power (kW)**
- **Apparent power (kVA)**
- **Reactive power (kVAR)**
- **Power factor (cos φ)**
- **Phase angle**
- **Active energy counter (kWh)**
- **Auto range selection**
- **Voltage**
- **Current (AC)**
- **True RMS**
- **Frequency**

This is a multipurpose clamp meter or power analyzer used to measure alternating current (AC), voltage (TRMS) and frequency to determine active (kW), apparent (kVA) and reactive (kVAR) power as well as active energy (kWh) consumption. Both the phase angle and the power factor (cos φ) are shown on the handheld power meter's large and easy-to-read backlit display.

The power analyzer aids in evaluating power and energy use in machines and electrical installations. The device's compact design allows for measurements to be taken in the field and on the go. Up to 99 measurement values can be saved to the internal memory of the power meter. The meter features a USB port, allowing for quick and easy data transfer to a PC for detailed analysis.

Specification

AC voltage	
Measuring range	1 ... 100 V
Resolution	0,1 V
Accuracy	±(1.2 % +5 digits)
Frequency range	50 ... 200 Hz
AC voltage	
Measuring range	1 ... 400 V
Resolution	0,1 V
Accuracy	±(1.2 % +5 digits)
Frequency range	50 ... 200 Hz
AC voltage	
Measuring range	1 ... 750 V
Resolution	0,1 V
Accuracy	±(1.2 % +5 digits)
Frequency range	50 ... 200 Hz
Alternating current AC	
Measuring range	1 ... 40 A
Resolution	0,1 A
Accuracy	±(2% +5 digits)
Frequency range	50 ... 60 Hz
Alternating current AC	
Measuring range	1 ... 100 A
Resolution	0,1 A
Accuracy	±(2% +5 digits)
Frequency range	50 ... 60 Hz
Alternating current AC	
Measuring range	1 ... 400 A
Resolution	0,1 A
Accuracy	±(2% +5 digits)
Frequency range	50 ... 60 Hz
Alternating current AC	
Measuring range	1 ... 1000 A
Resolution	1 A
Accuracy	±(2% +5 digits)
Frequency range	50 ... 60 Hz
Active power	
Measuring range	0 ... 100 kW
Resolution	0,01 kW

General technical data	
Measuring functions	MIN, MAX, HOLD
Display Typ	LCD with illumination
Storage medium	Internal memory
Storage capacity	99 Values
Safety standard	CAT III 1000V, CAT IV 600 V
Menu language	English (US), English (GB)
Protection class (device)	IP20
Battery/battery	1 x 9 V 9V Block , Zinc carbon
Battery capacity	310 mAh
Operating conditions	10 ... 60 °C , 0 ... 85 %RH
Storage conditions	10 ... 60 °C , 0 ... 85 %RH
Dimensions (L x W x H)	294 x 105 x 47 mm
Weight	495 g

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Accuracy	±(3% +5 digits) W
Active power	
Measuring range up to.	101 kW
Measuring range from.	750 kW
Resolution	0,1 kW
Accuracy	±(3% +5 digits) W
Reactive power	
Measuring range	0 ... 100 kVAR
Resolution	0,01 kVAR
Accuracy	±(3% +5 digits)
Reactive power	
Measuring range	101 ... 750 kVAR
Resolution	0,1 kVAR
Accuracy	±(3% +5 digits)
Phase angle	
Measuring range	0 ... 90 °
Resolution	1 °
Accuracy	2 °
Apparent power	
Measuring range	0 ... 100 kVA
Resolution	0,01 kVA
Accuracy	±(3% +5 digits)
Apparent power	
Measuring range	101 ... 750 kVA
Resolution	0,1 kVA
Accuracy	±(3% +5 digits)
Power factor	
Measuring range	0,3 ... 1
Resolution	0.001
Accuracy	0.022
Active energy	
Measuring range	1 ... 9999 kWh
Resolution	0,001 kVAh
Accuracy	±(3 % +2 Digits)
Frequency	
Measuring range	50 ... 200 Hz
Resolution	1 Hz
Accuracy	±(0.5% +5 digits)