

DIGITAL MULTIMETER

PCE-CM 40

- » Up to 3000 A AC
- » LC display
- » Inrush function
- » Frequency measurement
- » Easy handling
- » Data storage



The flexible current clamp PCE-CM 40 is suitable for current measurements up to 3000 A AC. In addition to TRMS current measurement, the flexible current clamp can be used to measure inrush currents. The measurement of the current takes place via a flexible Rogowski coil. This means that the electrical conductor around which the flexible current clamp is placed induces a voltage in the ammeter. This voltage is proportional to the current flow through the electrical conductor. This makes it possible to measure very high currents with the flexible current clamp almost without risk. In addition to the current measurement, the flexible current clamp is able to measure frequencies in the range of 50 ... 400 Hz.

The PCE-CM 40 flexible current clamp is used to measure the AC current in machines, systems and electrical installations. Due to the flexible Rogowski coil, which has a diameter of 170 mm, the clamp can be used wherever conventional space clamps can not be used. The measured value of the alternating current is displayed on the illuminated LCD. Furthermore, the measured values can be stored in a memory that can be read out via the Bluetooth interface.

Specification

Alternating current AC

Measuring range 0 ... 29,99 A AC

Resolution 0,01 A

Accuracy $\pm(3\% \text{ of Rd} + 8 \text{ digits})$

Frequency range 50 ... 400 Hz

Alternating current AC

Measuring range 30 ... 299,9 A AC

Resolution 0,1 A

Accuracy $\pm(3\% \text{ of Mw} + 5 \text{ digit})$

Alternating current AC

Measuring range 300 ... 3000 A AC

Resolution 1 A

Accuracy $\pm(3\% \text{ of Mw} + 5 \text{ digit})$

General technical data

Measuring functions HOLD

Display type LCD with backlight

Display size 2,5 Inch

Storage medium Internal memory

Interface Bluetooth

Standard(s) EN 61010-1, EN 61010-2-032, EN 61326-1

Maximum cable diameter 170 mm

Automatic power-off 15 min

Operating height 2000 m max. above sea level

Safety standard CAT III 1000V, CAT IV 600V

Dimensions Grinding diameter: approx. 170 mm x 5 mm

Menu language English, English (GB)

Protection class (device) IP31

(Rechargeable) battery 2 x 1,5 V AA battery , Alkali-manganese

Capacity 2500 mAh

Operating conditions 5 ... 40 °C , 0 ... 80 % RH

Storage conditions -20 ... 60 °C , 0 ... 80 % RH

Dimensions (L x W x H) 152 x 68 x 34 mm

Weight 188 g