

# MICROOHM METER

PCE-MO 2005



- » **6 selectable measurement ranges**
- » **4-wire measuring method**
- » **3.3-inch LC display**
- » **operating mode: resistance or inductance**
- » **test current max. 10 A within the 60000  $\mu\Omega$  range**
- » **adjustable limit values**
- » **calculation of the cable length**
- » **integrated overvoltage protection**
- » **mains and battery operation**

The microohm meter with a measurement range from 0  $\mu\Omega$  to 6000  $\Omega$  precisely measures the smallest resistances and is used to check critical connections in electronics and electrical engineering. The microohm meter offers 6 selectable measurement ranges, uses the 4-wire measuring method and can measure both resistance and inductance. The device provides a maximum test current of 10 A within the range of 60000  $\mu\Omega$  and offers test currents of 10 A, 1 A, 100 mA, 10 mA and 1 mA. The 3.3-inch LC display has a backlight that can be activated and switches off automatically after 30 seconds to save battery power.

In addition, the microohm meter has a comparison function that enables a quick pass/fail display and speeds up the evaluation of the test results. The cable length can be calculated by entering the resistance per metre, which provides precise results when determining the cable length. The integrated overvoltage protection protects the device from damage caused by high voltages, while the option for battery or mains operation offers flexibility in use. These features make the microohm meter a versatile and practical tool for a wide range of applications.

## Specification

### Resistance

Measurement range up to 0 ... 60000  $\mu\Omega$

Resolution 1  $\mu\Omega$

Accuracy  $\pm 0.25\%$  of Rd +25 digits (@ 23  $\pm 5^\circ\text{C}$ )

### Resistance

Measurement range up to 60000  $\mu\Omega$  ... 600 m $\Omega$

Resolution 10  $\mu\Omega$

Accuracy  $\pm 0.25\%$  of Rd +25 digits (@ 23  $\pm 5^\circ\text{C}$ )

### Resistance

Measurement range up to 600 ... 6000 m $\Omega$

Resolution 100  $\mu\Omega$

Accuracy  $\pm 0.25\%$  of Rd +25 digits (@ 23  $\pm 5^\circ\text{C}$ )

### Resistance

Measurement range up to 6000 ... 60000 m $\Omega$

Resolution 1000  $\mu\Omega$

Accuracy  $\pm 0.25\%$  of Rd +25 digits (@ 23  $\pm 5^\circ\text{C}$ )

### Resistance

Measurement range up to 60000 m $\Omega$  ... 600  $\Omega$

Resolution 10 m $\Omega$

Accuracy  $\pm 0.25\%$  of Rd +25 digits (@ 23  $\pm 5^\circ\text{C}$ )

### Resistance

Measurement range up to 600 ... 6000  $\Omega$

Resolution 100 m $\Omega$

Accuracy  $\pm 0.75\%$  of Rd +3 digits (@ 23  $\pm 5^\circ\text{C}$ )

### General technical data

Measuring functions HOLD

Display type LCD with backlight

Display size 3,3 Inch

Interface RS232

Standard(s) EN 61010-1, EN 61325-1

Measuring method 4-wire method for m $\Omega$  measurement

Test current  
10 A: 60000  $\mu\Omega$   
1 A: 600 m $\Omega$   
100 mA: 6000 m $\Omega$   
10 mA: 60000 m $\Omega$   
1 mA: 600  $\Omega$   
100  $\mu\text{A}$ : 6000  $\Omega$

Fuse(s) 10 A / 250 V

Menu language English, English (GB)

Protection class (device) IP30

Power supply 100 ... 240 V AC | 47/63 Hz

Connector type Schuko plug

(Rechargeable) battery 8 x 1,5 V AA battery , Zinc carbon

Capacity 1200 mAh

Operating conditions 0 ... 50  $^\circ\text{C}$  , 0 ... 80 % RH

Storage conditions 0 ... 50  $^\circ\text{C}$  , 0 ... 80 % RH

Dimensions ( L x W x H ) 220 x 125 x 64 mm

Weight 777 g