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 µΩ 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 µΩ to 6000 Ω 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 µΩ 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	
Measuring range	0 ... 60000 µΩ
Resolution	1 µΩ
Accuracy	±0.25 % of Rd +25 digits (@ 23 ±5 °C)
Resistance	
Measuring range	60000 µΩ ... 600 mΩ
Resolution	10 µΩ
Accuracy	±0.25 % of Rd +25 digits (@ 23 ±5 °C)
Resistance	
Measuring range	600 ... 6000 mΩ
Resolution	100 µΩ
Accuracy	±0.25 % of Rd +25 digits (@ 23 ±5 °C)
Resistance	
Measuring range	6000 ... 60000 mΩ
Resolution	1000 µΩ
Accuracy	±0.25 % of Rd +25 digits (@ 23 ±5 °C)
Resistance	
Measuring range	60000 mΩ ... 600 Ω
Resolution	10 mΩ
Accuracy	±0.25 % of Rd +25 digits (@ 23 ±5 °C)
Resistance	
Measuring range	600 ... 6000 Ω
Resolution	100 mΩ
Accuracy	±0.75 % of Rd +3 digits (@ 23 ±5 °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 mΩ measurement
Test current	10 A: 60000 µΩ 1 A: 600 mΩ 100 mA: 6000 mΩ 10 mA: 60000 mΩ 1 mA: 600 Ω 100 µA: 6000 Ω
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 °C , 0 ... 80 % RH
Storage conditions	0 ... 50 °C , 0 ... 80 % RH
Dimensions (L x W x H)	220 x 125 x 64 mm
Weight	777 g