

MEGOHMMETER

PCE-MO 1500



- » **direct voltage DC**
- » **alternating voltage AC**
- » **selectable test voltages**
- » **measuring functions: PI/DAR/HOLD**
- » **internal memory**
- » **display of measuring time**
- » **automatic discharge**
- » **automatic power-off**
- » **high-voltage display**
- » **safety: EN 61010-1; CAT III 1000V; CAT IV 600 V**

The megohmmeter was developed to simplify on-site troubleshooting in both industrial systems and solar systems. With selectable test voltages from 250 ... 2500 V and resistance measurement up to 200 GΩ, this device allows multiple operations to be carried out with just one tool. The intuitive user interface, short-circuit current of up to 1.8 mA and CAT IV 600 V safety make these portable high-voltage megohmmeters ideal for quick and stable resistance measurements anywhere.

The test voltage can be variably selected from 250 V, 500 V, 1000 V, 2000 V and 2500 V. It can also measure AC and DC voltages from 10 ... 600 V. The megohmmeter has a memory for 100 data records which can be called up via the LC display. In addition to the data hold function, the megohmmeter offers the option of measuring the polarisation index (PI) and the dielectric absorption ratio (DAR). These functions are particularly useful for condition monitoring and maintenance of electrical insulation, as they help to detect potential problems at an early stage and extend the service life of the equipment. A high-voltage indicator ensures safety during operation and a low-battery indicator indicates in good time that the battery needs to be replaced.

The device is particularly suitable for measuring insulation resistance on various electrical devices and insulating materials such as motors, cables, switches and other electrical components, making it ideal for maintenance, repair and testing work.

Specification

Direct voltage DC	
Measurement range up to	10 ... 600 V
Resolution	1 V
Accuracy	±(0.8 % of Rd +5 digits)
AC voltage	
Measurement range up to	10 ... 600 V
Resolution	1 V
Accuracy	±(1 % of Rd. +5 digits)
Overload	2000 V AC max. 1 minute
Insulation resistance	
Test voltage DC	250 V
Measurement range up to	2 M Ω ... 20 GΩ
Resolution	0,01 M Ω
Accuracy	±(5 % o Rd +10 digits)
Insulation resistance	
Test voltage DC	500 V, 1000 V
Measurement range up to	1 M Ω ... 20 GΩ
Resolution	0,01 M Ω
Accuracy	±(5 % o Rd +10 digits)
Insulation resistance	
Test voltage DC	2000 V
Measurement range up to	3 M Ω ... 200 GΩ
Resolution	0,01 M Ω
Accuracy	±(5 % o Rd +10 digits)
Insulation resistance	
Test voltage DC	2500 V
Measurement range up to	5 M Ω ... 200 GΩ
Resolution	0,01 M Ω
Accuracy	±(5 % o Rd +10 digits)

General technical data	
Measuring functions	HOLD, PI, DAR
Display type	LCD
Display size	3,7 Inch
Storage medium	Internal memory
Storage capacity	100 Data records
Standard(s)	EN 61010-1
Automatic power-off	25 min
Safety standard	CAT III 1000V, CAT IV 600 V
Menu language	English
Protection class (device)	IP20
Weight	651 g
Operating conditions	0 ... 35 °C , 0 ... 75 % RH
Storage conditions	0 ... 35 °C , 0 ... 75 % RH
(Rechargeable) battery	8 x 1,5 V AA battery , Alkali-manganese
Capacity	2500 mAh
Dimensions (L x W x H)	140 x 180 x 70 mm