DIGITAL MULTIMETER

PCE-IT 200



- **Measurement functions: HOLD, PI (polarization index), DAR (absorption ratio)**
- **Automatic detection of AC and DC**
- **Automatic discharge**
- **High voltage indicator**
- **Alarm when limit value is exceeded**
- **Overload: AC 720 V / 10 seconds**
- **Powered by 6 x 1.5V AA batteries**
- **External 9V DC power supply possible**

Our compact digital multimeter is perfect for measuring the insulation resistance of electrical devices and household appliances. With its ability to measure insulation resistance, AC voltage, low resistance, PI (polarization index) and DAR (dielectric absorption), it is a versatile and reliable tool for many application scenarios. With test voltages of 100 V, 250 V, 500 V and 1000 V, insulation resistances of up to 5.5 GΩ can be measured, enabling accurate analysis and evaluation of insulation quality. The digital multimeter not only offers the possibility to measure direct voltage (DC) in the measuring range from 30 V to 600 V and alternating voltage (AC), but also records the resistance in the range from 0 Ω to 999 Ω with high accuracy to ensure a good diagnosis of electrical systems.

The automatic AC and DC detection as well as the automatic discharge guarantee user-friendly operation and maximum safety during the measuring process. In addition, the digital multimeter has a high-voltage alarm and an over-limit alarm to inform the operator of possible risks. The digital multimeter is powered by 6 x AA batteries and also has the option of an external power supply of 9V DC.

The device complies with the standards: CAT III 600 V, CAT I 2500 V and IEC 6010-1, and is supplied with approx. 80 cm long test leads in an equipment bag.

Specification

Direct voltage DC	
Measurement range up to	30 ... 600 V
Resolution	1 V
Accuracy	±2 % of Rd ±3 digits
AC voltage	
Measurement range up to	30 ... 600 V
Resolution	1 V
Accuracy	±2 % of Rd ±3 digits
Overload	AC 720 V / 10 seconds
Insulation resistance	
Test voltage DC	100V
Measurement range up to	0 ... 1,5 GΩ
Resolution	0,01 GΩ
Accuracy	±5% of Rd ±3 digits (over 100 kΩ)
Insulation resistance	
Test voltage DC	250V
Measurement range up to	0 ... 5,5 GΩ
Resolution	0,01 GΩ
Accuracy	±5% of Rd ±3 digits (over 100 kΩ)
Insulation resistance	
Test voltage DC	500V
Measurement range up to	0 ... 5,5 GΩ
Resolution	0,01 GΩ
Accuracy	±5% of Rd ±3 digits (over 100 kΩ)
Insulation resistance	
Test voltage DC	1000V
Measurement range up to	0 ... 5,5 GΩ
Resolution	0,01 GΩ
Accuracy	±5% of Rd ±3 digits (over 100 kΩ)
Resistance	
Measurement range up to	0 ... 999 Ω
Resolution	0,1 Ω
Accuracy	±(2 % of Rd +3 digits)

General technical data	
Measuring functions	HOLD, PI, DAR
Display type	LC colour display
Measuring rate	2 Hz
Standard(s)	IEC 6010-1
Operating time	12 h
Safety standard	CAT III 600V, CAT I 2500 V
Alarm	optical, Acoustic
Menu language	English
Protection class (device)	IP20
Power supply	DC9V
(Rechargeable) battery	6 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 40 °C , 0 ... 85 % RH
Storage conditions	-20 ... 60 °C , 0 ... 90 % RH
Dimensions (L x W x H)	110 x 176 x 77 mm
Weight	689 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk