INTERNAL RESISTANCE TESTER

PCE-IRM 10



- **test frequency: 1 kHz**
- **measurement range selection: automatic, manual**
- **upper and lower limit values adjustable**
- **pass/fail test function**
- **automatic power-off**
- **measurement function: hold**
- **2.4-inch colour display**
- **internal memory: 100 KB**
- **CSV export via USB-C**

The Milliohmmeter is a compact and easy-to-use device for testing the battery quality of various battery types such as lithium, alkaline and lead-acid batteries. The Milliohmmeter can automatically test the internal resistance and voltage simultaneously, with the measurement results clearly shown on the 2.4-inch colour display. The voltage and resistance ranges can also be set manually.

An important function of the tester is the pass/fail test function, which enables a quick assessment of batteries based on predefined limit values. The user can define upper (UL) and lower (LL) limit values for voltage and resistance. A green light indicates that the battery fulfils the criteria, a red light indicates that it does not fulfil the criteria. Up to 8 limit values can be saved to make the test procedure faster and more efficient.

The test results are automatically saved to the internal memory and can be exported as a CSV file via the USB-C port. The port is also used to charge the device. For reliable measurements, the Milliohmmeter uses a 4-way connection with secure fastening by means of a screw ring. In addition, the test results can be provided with date and time, which can be set via a simple menu. The Milliohmmeter offers a practical solution for the accurate assessment of batteries and is suitable for applications in the automotive industry as well as for home users.

Specification

Direct voltage DC	
Measuring range up to	0 ... 100 V
Resolution	0,0001 V
Accuracy	±0.5 %
Resistance	
Measuring range up to	0 M Ω ... 200 Ω
Resolution	0,01 M Ω
Accuracy	±0.5 %

General technical data	
cable length	50 cm
Measuring functions	HOLD
Connections	Kelvin clamps
Display Typ	TFT-Color Display
Display size	2,4 Inch
Storage medium	Internal memory
Storage capacity	100 KB
Data interface	USB-C
Automatic shutdown adjustable	5 ... 30 min.
Automatic switch-off can be deactivated	Yes
Alarm	optical, Acoustic
Calibration	Manually
Test frequency	1 kHz
Menu language	English (US), English (GB), Chinese
Protection class (device)	IP42
Power supply	5 V / 1 A
Battery capacity	1000 mAh
Operating conditions	-10 ... 45 °C , 0 ... 80 %RH
Storage conditions	-20 ... 80 °C , 0 ... 80 %RH
Dimensions (L x W x H)	160 x 80 x 30 mm
Weight	222 g