

1 A digital miliohmmeter

MO2Ke



Illustrative image

Features

- Microprocessor controlled
- 0.01 mΩ resolution
- Resistance reading up to 2 kΩ
- 4½ digits reading
- Up to 1 A test current
- Alphanumerical display
- Rechargeable battery
- 0.2% ± 2 digits basic accuracy
- Kelvin-type (4-wires) measurement
- Hold memory
- Built-in printer (optional)
- RS232 data output

Description

The **MO2Ke** digital low resistance ohmmeter is a portable, microprocessor-controlled instrument used to accurately measure resistances of contacts, switches, transformer and motor windings, etc., using test currents from 1 mA up to 1 A.

It uses the Kelvin-type (4-terminals) measurement principle, thus eliminating errors caused by lead and contact resistances.

Resistance readings are shown in the alphanumeric display with up to a 4½ digit-resolution. It allows to measure resistances of up to 2 kΩ, with resolution of 0.01 mΩ.

Measurements accuracy is guaranteed by the state-of-the-art system for signal-amplification, offset-free and with long-term stability.

The equipment has a serial output (RS232) that allows to collect measured values in a serial printer, notebook, computer or any data logger in order to register the tests performed.

The HOLD function keeps in the display the value measured at a certain time-point.

Test current may be adjusted by the operator in every one of the scales and their values are displayed in analog form (bar graph), making it easy to measure resistances with a significant inductive component. The open circuit output voltage is up to 10 V, depending on the selected test current, reducing the stabilization time for the test current when highly inductive elements (specially transformers windings) are measured. The measurement circuit has an effective protection against voltage peaks originated by those inductances.

The equipment is housed in a rugged plastic case with a hinged lid and carrying handle. It is a portable, strong, impact resistant and lightweight equipment, suitable to be used in outdoors and under severe weather conditions. It supplies very reliable and accurate measurements both in laboratory and out in the field.

Technical specifications

| ELECTRICAL | |
|-----------------------|--|
| M02Ke | |
| Test current | 1 mA, 10 mA, 100 mA, 1 A Each current may be continuously adjustable from 0 to 100%. |
| Resistance ranges | 0-2 Ω @ 1 A 0-20 Ω @ 100 mA 0-200 Ω @ 10 mA 0-2000 Ω @ 1 mA |
| Resolution | 0.01 mΩ @ 1 A |
| Output voltage | Up to 10 Vdc (open circuit) @ 1 A |
| Basic accuracy | ± 0.2% of reading ± 2 digits |
| FEATURES | |
| Measurement principle | Four-terminal, U/I |
| Advanced features | Digital direct reading of very low resistances in the alphanumeric display, with up to 4½ digits. Very fast and accurate measurements. |
| Serial data output | RS232 |
| STANDARDS | |
| Safety | IEC 61010-1 |
| ENVIRONMENTAL | |
| IP rating | IP65 (with closed lid) |
| Operating temperature | -5 °C to 50 °C |
| Storage temperature | -25 °C to 70 °C |
| Humidity | 95 % RH (non condensing) |

| POWER SUPPLY | |
|-----------------------------------|---|
| Mains-powered or internal battery | Internal rechargeable 12 V - 3000 mAh battery or 100-240 V~ mains |
| Battery charger | For 100-240 V~ mains supply |
| MECHANICAL (OF THE INSTRUMENT) | |
| Weight | Approx. 3 kg |
| Dimensions | 274 x 250 x 124 mm |

Included accessories

- 2 Combined current and potential test leads
- Power cord
- RS232 cable
- User manual
- Synthetic bag

Global Presence

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Test & Measurement equipment

Digital transformer ratiometer
Earth ground testers
Hipots
Insulating glove tester
Insulation testers
Kilovoltmeters
Micro-ohmmeters
Power quality analyzers
Vibration meter



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