

MI 3250 MicroOhm 10A



NEW
10 A Low resistance
ohmmeter



MicroOhm MI 3250 is portable low resistance ohmmeter for measuring low resistances of breakers and switches, busbars, cable joints, small to medium sized transformer and motor windings for industrial application, etc., with test current up to 10 A.

MEASURING FUNCTIONS:

- Bidirectional resistance measurement from 0,1 $\mu\Omega$ up to 2000 Ω with test current up to 10 A;
- Temperature compensation (with optional temperature probe).

KEY FEATURES:

- Highly efficient 10 A current source generates 10 A into 200 m Ω load for 15 min without overheating.
- High overvoltage protection (CAT IV / 300 V) allows measurement in substations and other points with low line resistance.
- Internal protection circuit protects user and instrument from inadvertent connection to lines.
- Custom limits can be set for PASS / FAIL evaluation of test result.
- 50 Hz / 60 Hz ripple detection and rejection.
- Instrument can be powered from mains or internal rechargeable battery. Instrument can be normally used while built-in fast battery charger charges the NiMH batteries.
- Large 320 x 240 dots matrix LCD offers easy-to-read results and all associated parameters.
- Lightweight portable design.
- Up to 1000 test results with timestamp can be stored in internal memory.
- PC SW HVLink PRO enables downloading, review, analyses and printing of test results.

APPLICATION:

Measurement of the resistance of:

- Bus bar joints
- Motor and transformer windings
- Cables
- Fuses
- Aircraft frame bonds
- Rail and pipe bonds
- Lightning conductor bonding

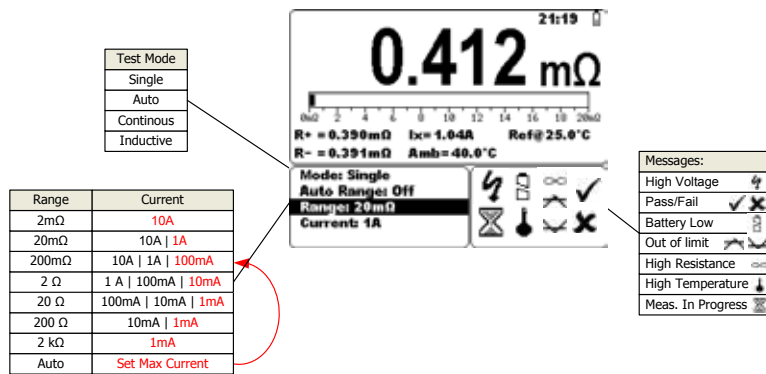
STANDARDS:

Electromagnetic compatibility:
IEC 61326-1

Safety (LVD):
EN 61010-1
EN 61010-031

TEST MODES:

- **Manual mode** is initiated by pressing the 'Test' button after connecting the test leads to the unit under test. Continuity of C1 and C2 connectors is checked. Current is applied in both forward and reverse direction.
- **Automatic mode:** test starts automatically when probes are connected. Current is applied in both forward and reverse direction.
- **Continuous mode** allows repeated measurements to be made on the same sample. The measurement is updated every three seconds.
- **Inductive mode** is used for measuring resistance of inductive loads like motors and generators. Instrument generates selected current in one direction and waits voltage to stabilize, before measurement is performed. To provide safety after measurement is completed instrument is equipped with auto-discharge facility.



TECHNICAL SPECIFICATION

| Function | Range | Resolution | Accuracy | Test current |
|--------------------------|---|------------------------------------|-------------------------|------------------|
| Resistance | 1,9999 mΩ | 0,1 μΩ | ±(0,25% Rdg + 0,01% FS) | 10 A |
| | 19,999 mΩ | 1 μΩ | ±(0,25% Rdg + 0,01% FS) | 10 A/1 A |
| | 199,99 mΩ | 10 μΩ | ±(0,25% Rdg + 0,01% FS) | 10 A/1 A/100 mA |
| | 1,9999 Ω | 100 μΩ | ±(0,25% Rdg + 0,01% FS) | 1 A/100 mA/10 mA |
| | 19,999 Ω | 1 mΩ | ±(0,25% Rdg + 0,01% FS) | 100 mA/10 mA |
| | 19,999 Ω | 10 mΩ | ±(1% Rdg + 0,1% FS) | 1 mA |
| | 199,99 Ω | 10 mΩ | ±(0,25% Rdg + 0,01% FS) | 10 mA |
| | 199,99 Ω | 100 mΩ | ±(1% Rdg + 0,25% FS) | 1 mA |
| | 1,9999 kΩ | 1 Ω | ±(1% Rdg + 0,25% FS) | 1 mA |
| | Power supply (mains voltage) | 90 ... 260 V _{AC} / 60 VA | | |
| Power supply (batteries) | 6 x 1,2 V NiMH 3500 mAh batteries, type C | | | |
| Operation | > 1000 single measurements | | | |
| Overvoltage category | CAT IV / 300 V | | | |
| Protection class | Double insulation | | | |
| Display | 320 x 240 LCD with backlight | | | |
| Communication | RS232 and USB | | | |
| Memory | 1000 memory locations | | | |
| Dimensions | 310 x 130 x 250 mm | | | |
| Weight | 2.8 kg | | | |

ORDERING INFORMATION:

MI 3250

Standard set



- Instrument MI 3250
- Test cable, 2.5 m, with Kelvin Clip, 2 pcs
- Test cable, 2 m, 4 pcs (2 x black, 2 x red)
- Crocodile clip, 4 pcs (2 x black, 2 x red)
- Test probe, 2 pcs (black)
- Mains cable
- USB cable
- RS232 cable
- NiMH rechargeable batteries, type C, 6 pcs
- PC SW HVLink PRO
- Bag for accessories
- Instruction manual
- Calibration certificate

OPTIONAL ACCESSORIES:

| Photo | Order No. | Acc. description |
|-------|-----------|---|
| | S 1072 | Continuity test lead, with crocodile clip, 2 x 2.5 m, 2 pcs |
| | A 1383 | Temperature probe with 3 m cable |
| | A 1333 | Resistor SHUNT 750 μΩ |



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