

# 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  $\Omega$  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 $\Omega$  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

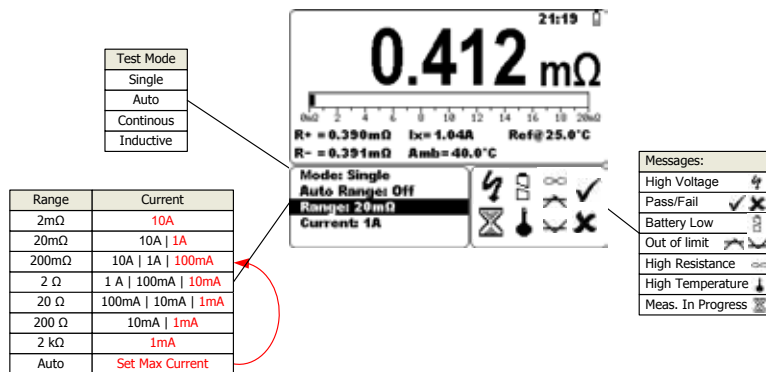
#### STANDARDS:

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 <sub>AC</sub> / 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



Measuring and Regulation Equipment Manufacturer

METREL d.d.  
Ljubljanska 77  
SI-1354 Horjul  
Tel: + 386 (0)1 75 58 200  
Fax: + 386 (0)1 75 49 226  
E-mail: [metrel@metrel.si](mailto:metrel@metrel.si)  
<http://www.metrel.si>

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.