

# MI 3125 BT EurotestCOMBO



- ✓ Supports B-type RCDs testing
- ✓ Built-in Bluetooth
- ✓ Handheld multifunctional installation tester

**NEW**



MI 3125 BT EurotestCOMBO is the ideal instrument for engineers who perform high volume testing or work regularly on TT and TN systems. Containing all necessary tests for installation safety testing, MI 3125 BT offers the brand new ability to test B-type (DC sensitive) RCDs. EurotestCOMBO contains integrated characteristics of fuses and RCDs (including B type) for the evaluation of line / loop impedance results. The bright graphic display with backlight ensures that results, indications, measurement parameters and messages are clear, visible and easy to read. The red and green LEDs on either side of the display provide a clear PASS / FAIL evaluation of test results. Each test has its own individual help screen describing how to connect the instrument into the installation and how to perform a measurement. All the results can be quickly saved and referenced on the instrument and then downloaded via the EuroLink PRO software, included in the standard set, to the computer for evaluation and report generation after testing.

## KEY FEATURES:

- **LED Pass/Fail indicators** two LED indicators for PASS / FAIL evaluation of test results are placed on both sides of the LCD.
- **Help screens** instrument comes complete with built-in help screens for referencing on site.
- **B type RCD** testing is supported.
- **Earth resistance measurement** instrument performs 3-wire earth resistance testing with two additional rods.
- **Built-in loop impedance tables** this unique feature allows automatic evaluation of the line / loop impedance results compared to the regulations.
- **Online voltage monitoring** monitors all 3 voltages in real time.
- **Polarity swap** automatic polarity reversal on continuity test.
- **Insulation range** wide range of insulation test voltages from 50 V to 1000 V, reading up to 1000 M $\Omega$ .
- **Trip Lock function** Zs (RCD) function performs a loop impedance test without tripping the RCD.
- **Built-in charger & rechargeable batteries** unit has a built-in charging circuit and comes complete with a set of rechargeable NiMH batteries.
- **RCD auto:** automated RCD testing procedure significantly reduces test time.
- **PC SW EuroLink PRO** included in the standard set enables downloading of test results and parameters and creation of test reports.
- **Bluetooth** communication with PC, Android tablets and smart phones via built-in BT.
- **EuroLink Android APP**, data management tool (option).

## MEASURING FUNCTIONS:

- Insulation resistance with DC voltage.
- Continuity of PE conductors with 200 mA test current with polarity change.
- Continuity of PE conductors with 7 mA test current (continuous measurement).
- Line impedance.
- Loop impedance.
- Loop impedance with Trip Lock RCD function.
- TRMS voltage and frequency.
- Phase sequence.
- RCD testing (general and selective, type AC, A and B).
- Earth resistance (3-wire method).

## APPLICATIONS

- Initial and periodic testing of domestic and industrial installations.
- Testing of single and multiphase systems.
- Testing of TT and TN systems.

## STANDARDS

- Functionality: IEC/EN 61557
- Other reference standards for testing: BS 7671; EN 61008; EN 61009; EN 60364-4-41; AS/NZ 3760
- Electromagnetic compatibility (EMC): EN 61326
- Safety (LVD): EN 61010-1; EN 61010-031

# Technical specifications

Function	Measuring range	Resolution	Accuracy
Insulation resistance (EN 61557-2)	U = 50, 100, 250 V <sub>DC</sub> : R: 0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
	20.0 MΩ ... 99.9 MΩ	0.1 MΩ	±10 % of reading
	100.0 MΩ ... 199.9 MΩ	0.1 MΩ	±20 % of reading
Continuity, 200 mA (EN 61557-4)	U = 500 V <sub>DC</sub> , 1 kV <sub>DC</sub> : R: 0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
	20.0 MΩ ... 99.9 MΩ	0.1 MΩ	±5 % of reading
	200 MΩ ... 999 MΩ	1 MΩ	±10 % of reading
Continuity, 7 mA	0.00 Ω ... 19.99 Ω	0.01 Ω	±(3 % of reading + 3 digits)
	20.0 Ω ... 199.9 Ω	0.1 Ω	±5 % of reading
	200 Ω ... 1999 Ω	1 Ω	±5 % of reading
Loop impedance (EN 61557-3)	0.00 Ω ... 9.99 Ω	0.01 Ω	±(5 % of reading + 5 digits)
	10.0 Ω ... 99.9 Ω	0.1 Ω	±(5 % of reading + 5 digits)
	100 Ω ... 999 Ω	1 Ω	±10 % of reading
Line impedance (EN 61557-3)	1.00 kΩ ... 9.99 kΩ	10 Ω	±10 % of reading
	0.00 Ω ... 9.99 Ω	0.01 Ω	±(5 % of reading + 5 digits)
	10.0 Ω ... 99.9 Ω	0.1 Ω	±(5 % of reading + 5 digits)
Voltage	100 Ω ... 999 Ω	1 Ω	±10 % of reading
	1.00 kΩ ... 9.99 kΩ	10 Ω	±10 % of reading
	0 V ... 550 V	1 V	±(2 % of reading + 2 digits)
Frequency	0.00 Hz ... 9.99 Hz	0.01 Hz	±(0.2 % of reading + 1 digit)
	10.0 Hz ... 499.9 Hz	0.1 Hz	
Phase sequence (EN 61557-7)	1.2.3 or 3.2.1		
RCD testing (EN 61557-6)	I <sub>ΔN</sub> : 10 mA, 30 mA, 100 mA, 300 mA, 500 mA, 1 A		
- Contact voltage U <sub>c</sub>	0.0 V ... 19.9 V	0.1 V	(-0 % / +15 %) of r. ±10 digits
	20.0 V ... 99.9 V	0.1 V	(-0 % / +15 %) of reading
- Trip-out time	0 ms ... 40.0 ms	0.1 ms	±1 ms
	0 ms ... max. time	0.1 ms	±3 ms
- Trip-out current	0.2 x I <sub>ΔN</sub> ... 1.1 x I <sub>ΔN</sub> (AC type)	0.05 x I <sub>ΔN</sub>	±0.1 x I <sub>ΔN</sub>
	0.2 x I <sub>ΔN</sub> ... 2.2 x I <sub>ΔN</sub> (A type, I <sub>ΔN</sub> < 30 mA)	0.05 x I <sub>ΔN</sub>	±0.1 x I <sub>ΔN</sub>
	0.2 x I <sub>ΔN</sub> ... 1.5 x I <sub>ΔN</sub> (A type, I <sub>ΔN</sub> ≥ 30 mA)	0.05 x I <sub>ΔN</sub>	±0.1 x I <sub>ΔN</sub>
	0.2 x I <sub>ΔN</sub> ... 2.2 x I <sub>ΔN</sub> (B type)	0.05 x I <sub>ΔN</sub>	±0.1 x I <sub>ΔN</sub>
Earth resistance (EN 61557-5)	0.00 Ω ... 19.99 Ω	0.01 Ω	±(5 % of reading + 5 digits)
	20.0 Ω ... 199.9 Ω	0.1 Ω	±(5 % of reading + 5 digits)
	200 Ω ... 9999 Ω	1 Ω	±(5 % of reading + 5 digits)

## General data

Power supply	6 x 1.5 V alkaline or 6 x 1.2 V rechargeable batteries, type AA
Overvoltage category	600 V / CAT III; 300 V / CAT IV
Protection class	double insulation
COM port	RS232 and USB
Dimensions	140 x 80 x 230 mm
Weight	1.0 kg



Measuring and Regulation Equipment Manufacturer

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## Ordering information

Standard set

MI 3125 BT



- Instrument MI 3125 BT EurotestCOMBO
- Set of carrying straps
- Test lead, 3 x 1.5 m
- Shuko-plug test cable
- Test probe, 3 pcs (blue, black, green)
- Crocodile clip, 3 pcs (blue, black, green)
- Power supply adapter + 6 rechargeable batteries NiMH, type AA
- USB cable
- RS232 - PS/2 cable
- PC SW EuroLink PRO
- Short instruction manual
- Instruction manual and handbook on CD
- Calibration certificate

## Optional accessories

Photo	Order No.	Description
	A 1110	Three phase adapter
	A 1111	Three phase adapter with switch
	A 1160	Fast charger with a set of 6 pcs NiMH batteries AA
	A 1153	Test lead, black, 20 m
	A 1154	Test lead, black, 4 m
	A 1314	Plug commander
	A 1401	Tip commander
	A 1303	Soft hand strap
	A 1289	Soft carrying bag
	A 1271	Small soft carrying bag
	A 1292	Upgrade code EuroLink PRO to EuroLink PRO Plus
	A 1431	EuroLink Android APP
	S 2026	Earth 20 m set, 3 wire
	S 2027	Earth 50 m set, 3 wire

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