

17th Edition electrical installation testing made EASY

MI 3125 EurotestCOMBO LITE

MI 3125B EurotestCOMBO PRO

- Compliant to BS 7671 17th Edition and Part P
- Patented solution of Automated R1+R2 (MI 3125B)
- Supports B-type RCDs testing (MI 3125B)



The new generation of handheld 17th edition testers is designed to make the testing easy, simple and fast. MI 3125B EurotestCOMBO offers the unique solutions for fast testing of ring circuits and supports the testing of new technologies in the electrical installation (B-type of RCDs).

The testers contain integrated characteristics of fuses and RCDs for the automatic evaluation of Line / Loop impedance results.

The large 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 indication as to the PASS/FAIL nature of the result compared to the user set or automatically selected limits.

Each test has its own individual help screen describing how to connect the instrument into the installation and how to perform a measurement.

The MI 3125B EurotestCOMBO PRO provides the ability to save and quickly download the results and print the test reports via the A 1290 EuroLink PRO software, included in the standard set.

Standards

Functionality: EN 61557














Other reference standards for testing:

EN 61008; EN 61009; EN 60364-4-41; BS 7671; AS/NZ 3760

Electromagnetic compatibility (EMC): EN 61326

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

Key features

-  3 years manufacturers warranty
-  Pass fail evaluation
-  Phase Sequence
-  Triplock
-  Earth
-  RCD auto test
-  B type RCD
-  EASI Switch
-  Safety category
-  Help menu
-  Loop impedance tables
-  Rechargeable
-  Downloadable



MI 3125 EurotestCOMBO LITE

Handheld BS7671:2008 (17th Edition) and Part P Multifunctional Installation Tester with Help Screens and built-in Loop Impedance Tables.



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.

Built-in Loop impedance tables: this unique feature allows automatic evaluation of the line / loop impedance compared to the regulations.

Online voltage monitoring: monitors all 3 voltages in real-time.

Upgradeable: if changes occur to the regulations, upgrades can be made to the firmware to keep the instrument up to date.

Polarity swap: automatic polarity reversal on continuity test.

Trip Lock function: Zs (RCD) function performs a loop impedance test without tripping the RCD.

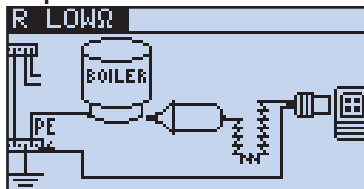
Built-in charger & rechargeable batteries: unit has a built-in charging circuit and comes complete with a set of rechargeable NiMH batteries.

RCD auto: automated RCD testing procedure significantly reduces test time.

Backlight: Large bright LCD with backlight for easy reading of results even in dark conditions.



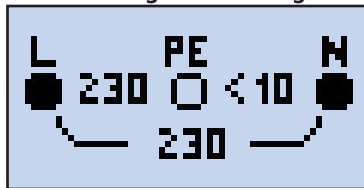
Help screens:



Automatic loop evaluation:

ZI	BS88	16A	0.4s
z:	0.63Ω	✓	
Isc:	548A	Lim:	2.16Ω
	TEST	L	PE
		230	0
		230	N

Online voltage monitoring



RCD auto:

AUTO	30mA	↔	G
x1:	18ms	18ms	
x5:	18ms	18ms	
x10:	>300ms	>300ms	
Uc:	0.4U		
	RCD	TEST	
	✓		

ORDERING INFORMATION

STANDARD KIT - Part No. MI 3125

- MI 3125 EurotestCOMBO LITE
- Mains plug cable
- Test lead, 3 x 1.5 m (brown, green, blue)
- Rechargeable NiMH AA batteries (6 pcs)
- 12 V battery charging adaptor
- UK mains cable for charging adaptor
- Test probe (blue)
- Test probe (brown)
- Test probe (green)
- Crocodile clip (blue)
- Crocodile clip (brown)
- Crocodile clip (green)
- Hand strap
- Small soft carrying bag
- Short instruction manual
- Instruction manual on CD
- Calibration certificate

RECOMMENDED ACCESSORIES

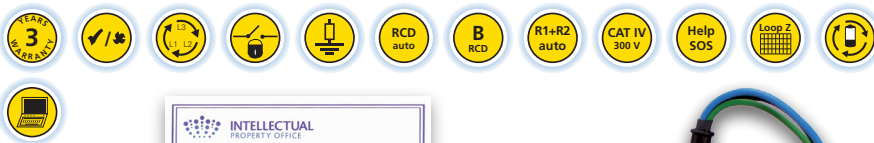
- A 1194 Tip commander, 3-wire
- HC 30 Small Hard case

Display:



MI 3125B EurotestCOMBO PRO

Handheld BS7671:2008 (17th Edition) and Part P Downloadable Multifunctional Installation Tester with Help Screens, built-in Loop Impedance Tables, earth spike resistance measurement (optional), B-type RCD testing and automatic R1+R2 testing (Patented solution).



Testing B-type RCDs

In electrical installations fuses do not always provide adequate protection against shock hazard or fire. Residual current devices (RCDs) are used to increase the level of protection for personnel and livestock.

Type B is a new type of residual current device (RCD). The popularity of this type of RCD is increasing as they provide a higher protection level than A- and AC-type RCDs. AC-type RCDs protect only against AC leakage currents. A-type RCDs protect against AC and pulsating DC leakage currents. Only B-type RCDs protect electrical installation against all types of leakage currents including smooth DC leakages.

Sources of DC leakage currents can be DC electrical installations, outputs from poly-phase rectifiers, large switchers or frequency converters in the equipment. In certain environments values of DC leakages can become high and dangerous, e.g.:

- Construction sites: cranes, pumps, mixers
- Buildings: large air-conditioners, elevators
- Photovoltaic systems
- Railways
- Amusement parks: carousels, trains

The new MI 3125B EurotestCOMBO PRO has the ability to test B-type RCDs up to $I_{\Delta N}=500$ mA. It meets the latest demands of the IEC/EN 61557-6 Ed.2 Annex A draft.

Automatic R1+R2 testing (Patented solution)

The A 1214 EASI Switch adaptor is the first and only adaptor that will allow R1+R2 measurements to be performed automatically (i.e. no need to exchange leads or use connectors). When used in conjunction with the MI 3125B EurotestCOMBO PRO the A 1214 can be quickly connected to all the wires of the ring circuit at the distribution board and directly and remotely controlled by the test instrument in order to perform all the necessary ring continuity tests. This is a very quick and easy method that significantly reduces the time involved in testing ring circuits.

ORDERING INFORMATION

STANDARD KIT - Part No. MI 3125B

- MI 3125B EurotestCOMBO PRO
- A 1214 EASI Switch
- Mains plug cable
- Test lead, 3 x 1.5 m (brown, green, blue)
- Rechargeable NiMH AA batteries (6 pcs)
- 12 V battery charging adaptor
- UK mains cable for charging adaptor
- Test probe (blue)
- Test probe (brown)
- Test probe (green)
- Crocodile clip (blue)
- Crocodile clip (brown)
- Crocodile clip (green)
- PC SW EuroLink PRO
- Hand strap
- Small soft carrying bag
- Short instruction manual
- Instruction manual on CD
- Calibration certificate

RECOMMENDED ACCESSORIES

- A 1197 Tip commander, 3-wire
- A 1292 Upgrade code EuroLink PRO to EuroLink PRO Plus
- S 2026 Earth test set, 3-wire, 20 m
- S 2027 Earth test set, 3-wire, 50 m
- HC 60 Medium Hard case

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.

Built-in Loop impedance tables: this unique feature allows automatic evaluation of the line / loop impedance compared to the regulations.

Online voltage monitoring: monitors all 3 voltages in real-time.

Upgradeable: if changes occur to the regulations, upgrades can be made to the firmware to keep the instrument up to date.

Polarity swap: automatic polarity reversal on continuity test.

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.

Backlight: Large bright LCD with backlight for easy reading of results even in dark conditions.

Automated R1+R2 testing via A 1214 EASI Switch

B type RCD testing is supported.

Earth resistance measurement: instrument performs 3-wire earth resistance testing when used in conjunction with the optional S2026 and S2027 Earth test set.

Downloadable including PC SW EuroLink PRO: included in the standard set enables downloading of test results and parameters and creation of test reports.

Recommended accessories

Photo	Accessorie description	Order No.	MI 3125	MI 3125B
	Small Hard case	HC 30	✓	
	Medium Hard case	HC 60		✓
	Set of carrying straps	A 1302	✓	✓
	Tip commander, 3-wire	A 1194	✓	
	Tip commander, 3-wire	A 1197		✓
	Eurocheck	CS 2099	✓	✓
	Upgrade code EuroLink PRO to EuroLink PRO Plus	A 1292		✓
	Earth test set, 3-wire, 20 m	S 2026		✓
	Earth test set, 3-wire, 50 m	S 2027		✓
	Electrical installation certificate booklet	MET01	✓	
	Schedule of Inspection and circuit details/test results	MET02	✓	
	Minor Electrical Installation Works Certificate	MET03	✓	
	Periodic Inspection Reports	MET04	✓	
	Part P Domestic Electrical Installation Certificate	MET05	✓	

Services available

Calibration

- Standard & Express services, including next day and same day Call 'N' Cal.

Repair

- UK based repair & service centre.

Medi-Cal Service – refurbish your old meter

- Full service of all the mechanically actuated components, new firmware & full adjustment. Calibration & service certificates included.

SmartWater – make it safe

- SmartWater forensic security marking for meters and accessories.

Checkpoint

- Interim spot checks on all settings, certificate provided.

Technical Helpline

- **Free** Technical Advice from our experienced technicians from 8.00 am until 5.00 pm
Call: 01924 24 5000

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

Technical specifications

Part No.		MI 3125	MI 3125B
INSULATION EN 61557-2	With DC voltage	50 ... 1000 V	50 ... 1000 V
	Range	0 ... 999 MΩ	0 ... 999 MΩ
CONTINUITY EN 61557-4	Automated R1+R2 testing		✓
	R low 200 mA DC	✓	✓
	Range	0 ... 1999 Ω	0 ... 1999 Ω
	Automatic polarity swap	✓	✓
LINE/LOOP EN 61557-3	Line impedance measurement	✓	✓
	Loop impedance measurement (Ze & Zs)	✓	✓
	High accuracy TRIP LOCK impedance	✓	✓
	Built-in loop impedance tables for automatic PASS/FAIL decision	✓	✓
RCD EN 61557-6	RCD type (general & selective)	A, AC	A, AC, B
	RCD trip time measurement	✓	✓
	Ramp test	✓	✓
	RCD auto	✓	✓
	10, 30, 100, 300, 500, 1000* mA	✓	✓
VOLTAGE FREQUENCY	Real-time AC voltage measurement	✓	✓
	Simultaneous voltage measurement over 3 phases	✓	✓
	Frequency measurement	✓	✓
PHASE SEQUENCE	L1 - L2 - L3	✓	✓
EARTH EN 61557-5	Three wire resistance		✓
	Two wire resistance		✓
ON LINE WARNINGS/ INFORMATION	Touch electrode	✓	✓
	HELP menu	✓	✓
COMMUNICATION PORTS	RS232		✓
	USB		✓
SOFTWARE MEMORIES	Number of memory locations		1700
	EuroLink PRO		✓
	EuroLink PRO Plus		Optional
GENERAL DATA	Frequency span	45 ... 65 Hz	45 ... 65 Hz
	Safety category	CAT IV / 300 V CAT III / 600 V	CAT IV / 300 V CAT III / 600 V
	In-built battery charger	✓	✓
	Batteries	6 x AA	6 x AA
	Weight	1.0 kg	1.0 kg
	Size (mm)	230 x 140 x 80	230 x 140 x 80

* For AC- and A-type RDC only

Distributor:

 **METREL®**
Test and Measuring Equipment
 Metrel UK
 Unit 1, Hopton House, Ripley Drive,
 Normanton, West Yorkshire, WF6 1QT
 Tel.: 01924245000
 Web: www.metrel.co.uk
 E-mail: info@metrel.co.uk