

Multifunctional electrical installation tester

MI 3136 EurotestCOMBO XC



Low-voltage electrical safety is one of the most important considerations when protecting domestic and office users. For anyone committed to ensuring reliable, compliant, and user-friendly safety testing, the MI 3136 EurotestCOMBO XC is an exceptional choice. Its compact, portable design makes it suitable for a wide range of applications. The instrument delivers fast, accurate results while helping technicians maintain the highest electrical safety standards.

KEY FEATURES

- **5,2 Ah Li-ion battery** with built-in charger;
- Universal **USB Type-C** connector for **fast charging and (15 V, 3 A, 45 W)** and communication with PCs;
- **Fast manipulation** via 4.3" TFT **high-resolution colour touchscreen** for test preparation and data storage;
- **Separate RCD type and current shape in RCD measurements;**
- Automated RCD testing procedure (RCD AUTO);

- Predefined automatic tests:
 - Auto TT;
 - Auto TT RCD;
 - Auto TN;
 - Auto TN RCD.
- Predefined AUTO SEQUENCES;
- Built-in help screens for referencing on site;
- Built-in fuse tables for automatic evaluation of the line / loop impedance result;
- Monitoring of all 3 voltages in real-time;
- Automatic polarity reversal on continuity test;
- Measurement filtering according to the selected area group;

- **Wi-Fi and Bluetooth®** connectivity for **fast communication** with Metrel Cloud for measurement planning, data management and reporting. *
- Metrel Cloud Storage compatible.
- Metrel Cloud App compatible.
- PC SW Metrel ES Manager: Enables creation of test structures, professional test reports and data transfer for archiving. *

** Available with MESM PRO and Metrel Cloud licences.*

TECHNICAL SPECIFICATION

Main function	Sub-function	Measuring range	Resolution	Accuracy
CONTINUITY	Test current 7 mA 2-wire	0.0 Ω ... 19.99 Ω	0.1 Ω	±(5 % of reading + 3 digits)
		20 Ω ... 1999 Ω	1 Ω	±(5 % of reading + 3 digits)
	Test current 200 mA 2-wire	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)
		200.0 Ω ... 1999 Ω	1 Ω	±(5 % of reading)
	Rpe (RCD: No)	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 ... 1999 Ω	1 Ω	±(5 % of reading + 5 digits)
	Rpe (RCD: Yes, no trip out)	0.00 Ω ... 19.99 Ω	0.01 Ω	±(5 % of reading + 10 digits)
		20.0 Ω ... 99.9 Ω	0.1 Ω	±(5 % of reading + 10 digits)
		100 Ω ... 199.9 Ω	0.1 Ω	±10 % of reading
		200 Ω ... 1999 Ω	1 Ω	±10 % of reading
INSULATION RESISTANCE	R iso test voltage 50/100/250 V	0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
		20.0 MΩ ... 99.9 M Ω	0.1 MΩ	±(10 % of reading)
		100.0 MΩ ... 199.9 MΩ	0.1 MΩ	±(20 % of reading)
	R iso test voltage 500 V	0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
		20.0 MΩ ... 199.9 MΩ	0.1 MΩ	±(5 % of reading)
		200 MΩ ... 999 MΩ	1 MΩ	±(10 % of reading)
	R iso test voltage 1000 V	0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
		20.0 MΩ ... 199.9 MΩ	0.1 MΩ	±(5 % of reading)
		200 MΩ ... 999 MΩ	1 MΩ	Indicative
	Um	0 V ... 1200 V	1 V	±(3 % of reading + 3 digits)
RCD	RCD Uc	0.0 V ... 19.9 V	0.1 V	(-0 %/+15 %) of reading ± 10 digits
		20.0 V ... 99.9 V	0.1 V	(-0 %/+15 %) of reading
	RCD RL	0 ... 9999 Ω	1 Ω	Calculated value (RL=U/IAN)
	RCD (t)	0.0 ms ... 40.0 ms	0.1 ms	±1 ms
		40.1 ms ... 999.9 ms	0.1 ms	±3 ms
		1000 ms ... 1999 ms	1 ms	±3 ms
		2.00 s ... 10.00 s	10 ms	±3 ms
	RCD I Ramp	0.1 m... 99.9 mA 0.1 mA ± 10 %		±0.1°ID
		100 m ... 999 mA 1 mA ± 10 %		±0.1°ID
		1.00 ... 1.10 A 10 mA ± 10 %		±0.1°ID
IMPEDANCE	Zline (L-L, L-N), Zloop (L-PE)	0.00 Ω ... 9.99 Ω	0.01 Ω	±(3 % of reading + 3 digits)
		10.0 Ω ... 99.9 Ω	0.1 Ω	±(3 % of reading + 3 digits)
		100 Ω ... 999 Ω	1 Ω	±(10 % of reading)
		1.00 kΩ ... 9.99 kΩ	10 Ω	±(10 % of reading)
	Zs RCD	0.00 Ω ... 9.99 Ω	0,01 Ω	±(5 % of reading + 10 digits)
		10.0 Ω ... 99.9 Ω	0,1 Ω	±(5 % of reading + 10 digits)
		100 Ω ... 999 Ω	1 Ω	±(10 % of reading)
		1.00 kΩ ... 9.99 kΩ	10 Ω	±(10 % of reading)
	Uc	0.0 % ... 99.9 %	0.1 %	Consider accuracy of Zline measurement(s)
VOLTAGE	Voltage	0 V ... 550 V	1 V	±(2 % of reading + 2 digits)
	Frequency	14.0 Hz ... 499.9 Hz	0.1 Hz	±(0.2 % of reading + 1 digit)
EARTH RESISTANCE	3-wire	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)
		200.0 Ω ... 9999 Ω	1 Ω	±(5 % of reading + 5 digits)
GENERAL	Power supply	7.2 V (5200 mAh) Li-ion battery pack		
	Measuring category	600 V CAT III; 300 V CAT IV		
	Protection class	Double insulation		
	COM port	Bluetooth, USB Type-C		
	Display	Colour TFT display, 4.3 inch, 480 x 272 pixels		
	Weight	1.78 kg		
	Size (l x h x w)	252 x 111 x 165 mm		

USED FOR

- Initial and periodic testing and inspections of domestic and small-office low-voltage installations;
- Testing of TT and TN systems;
- Fire safety and hazards testing;
- Installation troubleshooting;
- Electric vehicle supply equipment (EVSE) testing;
- Maintenance (Preventive, Predictive, Corrective, Reactive repairs);
- Low-voltage earthing and lightning protection.

USED BY

- Students, entry level and small electricians;
- Office-based businesses;
- Technical aid organizations (fire brigades, ministry of defence, healthcare, etc.);
- Public sector;
- Hotels and restaurants;
- Construction businesses;
- Facility maintenance personnel;
- Rental companies;
- Small to medium electrical installation companies;
- Entry level electrical inspectors.

STANDARDS

Functionality

- IEC/EN 61557

Electromagnetic compatibility (EMC)

- EN 61326-1
- EN 61326 - 2-2

Safety (LVD)

- EN 61010-1
- EN 61010-2-030
- EN 61010-031
- EN 61010-2-032

Reference standards for electrical installations and components

- EN 61008
- EN 61009
- IEC 60364-4-41
- BS 7671
- AS/NZS 3017
- IEC 62752
- IEC 62955



OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1314 BLK	Schuko commander, Black
	A 1401 BLK	Tip commander, Black
	A 1014	Test probe, Black
	A 1015	Test probe, Blue
	A 1062	Test probe, Green
	A 1013	Crocodile clip, Black
	A 1310	Crocodile clip, Blue
	A 1309	Crocodile clip, Green
	A 1193	Test cable, BLK/GRN/BLU, 1.5m, 0.75mm2
	A 1053	Test cable, 1.5m, 0.75mm2
	A 1857	USB cable, Type C

SOFTWARE

Photo	Order No.	Acc. description
	SW 1201	Metrel Electrical Safety Manager (MESM)
	SW 1404	Metrel Cloud Storage
	SW 1406	Metrel Cloud App

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Photo	Order No.	Acc. description
	A 1289	Soft padded carrying bag Size: M
	A 1191	Receiver 10k
	S 2027	3-wire Earth measurement set, 50m
	S 2058	Isolation resistance measurement set
	A 1012	Test lead, Green, 4m, 0.75mm2
	A 1154	Test lead, Black, 4m, 0.75mm2
	A 1153	Test lead, Black, 20m, 0.75mm2, Reel
	A 1164	Test lead, Black, 50m, 0.75mm2, Reel
	A 1778	Test probe, Black - Magnet tip
	A 1854	Telescopic probe CAT IV 1000V, Lmax = 2.1m

CAN BE USED TOGETHER WITH

Photo	Order No.	Acc. description
	A 1532 XA	EVSE Adapter XA

ORDERING INFORMATION



MI 3136 Standard set (ST)

- Instrument MI 3136 EurotestCOMBO XC
- 1x A 1014 Test probe, Black
- 1x A 1015 Test probe, Blue
- 1x A 1062 Test probe, Green
- 1x A 1013 Crocodile clip, Black
- 1x A 1310 Crocodile clip, Blue
- 1x A 1309 Crocodile clip, Green
- 1x A 1193 Test cable, BLK/GRN/BLU, 1.5m, 0.75mm2
- 1x A 1053 Test cable, 1.5m, 0.75mm2
- 1x A 1857 USB cable, Type C
- Calibration certificate
- Short instruction manual
- Instruction manual*
- Metrel ES Manager BASIC Licence*
- SW 1201 Metrel ES Manager (program installation)*

**SW 1201 Metrel ES Manager and all documentation can be downloaded free of charge from Metrel Web server (<https://www.metrel.si/en/downloads/>) or Metrel Documentation center (<https://doc.metrel.si>).*