

Multifunctional electrical installation tester MI 3136 EurotestCOMBO XC

Multifunctional electrical installation tester



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;**
- Universal **USB Type-C** connector for **fast charging (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;
- **Separated 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;
- Real-time L-N, L-PE, N-PE **voltage monitoring;**
- 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

TECHNICAL SPECIFICATION

| Main function | Sub-function | Measuring range | Resolution | Accuracy | |
|-----------------------|------------------------------------|--|----------------------|--|-------------------------------------|
| CONTINUITY | Test current 8,5 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 MΩ | 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 (0.3 × IΔN) | | 0 ... 9999 Ω | 1 Ω | Calculated value (RL=U/IΔN) | |
| 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 | ±10 ms | |
| RCD I Ramp | | 0.1 m... 99.9 mA 0.1 mA ± 10 % | | ±10 % | |
| | | 100 m ... 999 mA 1 mA ± 10 % | | ±10 % | |
| | | 1.00 ... 1.10 A 10 mA ± 10 % | | ±10 % | |
| 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 % | Relative accuracy of Uc is equal to relative accuracy of Z | |
| | 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 | 1.35 kg | | | |
| | Size (l x h x w) | 272 x 152 x 70 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 (e.g. after repair);
- Low-voltage earthing and lightning protection.

USED BY

- Electrical installation companies;
- Electrical inspectors;
- Electricians;
- Technical aid organizations (fire brigades, ministry of defence, healthcare, etc.);
- Facility maintenance personnel (hotels and restaurants);
- Construction businesses;
- Office-based businesses;
- Public sector;
- Rental companies;
- Students.

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

- HD 60364-6 (DIN VDE 0100 600)
- BS 7671
- AS/NZS 3017
- IEC 60364-4-41 (DIN VDE 0100 410)
- EN 61008
- EN 61009
- IEC 60364 5 53 (DIN VDE 0105 100)
- IEC 60364 2 41 (DIN VDE 0122 1)
- 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 1298 | Test probe, Brown |
|  | A 1013 | Crocodile clip, Black |
|  | A 1310 | Crocodile clip, Blue |
|  | A 1309 | Crocodile clip, Green |
|  | A 1297 | Crocodile clip, Brown |
|  | 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 |
|  | A 1860 | Power supply, 3A/15V |
|  | A 1289 | Soft padded carrying bag Size: M |

| Photo | Order No. | Acc. description |
|---|-----------|--|
|  | A 1191 | Receiver 10k |
|  | 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 |
|  | A 1110 | 3 phase adapter |
|  | A 1111 | 3 phase adapter with switch-16A |
|  | S 2058 | Isolation resistance measurement set |
|  | S 2026 | 3-wire Earth measurement set, 20m |
|  | S 2027 | 3-wire Earth measurement set, 50m |
|  | S 2143 | Test probe set, Black/Blue/Green-Dia = 2mm |
|  | CS 2099 | Eurocheck |

ORDERING INFORMATION






MI 3136 Basic set (B5)



- 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/>).

SOFTWARE

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

CAN BE USED TOGETHER WITH

| Photo | Order No. | Acc. description |
|---|-----------|--------------------|
|  | A 1632 | eMobility Analyser |
|  | A 1532 XA | EVSE Adapter XA |

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