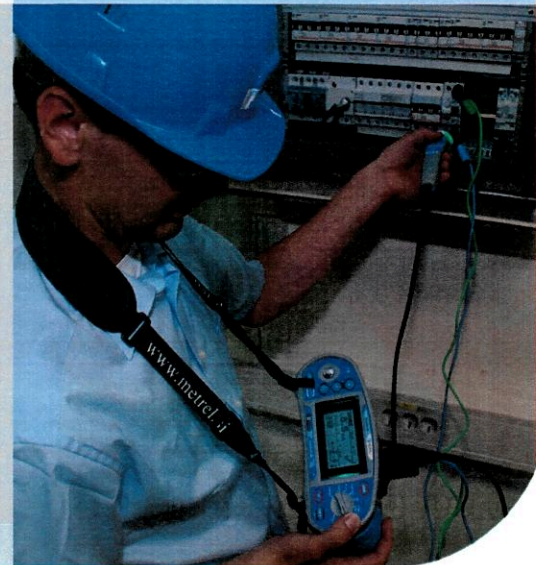


# MI 3100 SE EurotestEASI



**AUTO SEQUENCE®**

**tester with  
TN and TT  
earthing systems support**



MI 3100 SE EurotestEASI is a fast, accurate and easy to use multifunctional measuring instrument which performs a complete set of installation safety tests according to IEC/EN 61557. Besides, the MI 3100 SE EurotestEASI enables on-line voltage monitoring, phase sequence testing and earth resistance measurement. EurotestEASI is equipped with integrated characteristics of fuses and RCDs for PASS / FAIL evaluation of test results. 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.

## Measuring functions:

- Insulation resistance with DC voltage from 50 V to 1000 V;
- Continuity of PE conductors with 200 mA test current with polarity change;
- Continuity of PE conductors with 7 mA test current without RCD tripping;
- 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, F);
- Earth resistance (3-wire method).

## Key features:

- Predefined mini AUTOSEQUENCES:  
Auto TT (U, Zln, Zs, Uc);  
Auto TN/RCD (U, Zln, Zs, Rpe);  
Auto TN (U, Zln, Zlpe, Rpe).
- 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.
- Loop impedance test without tripping the RCD.
- Built-in charger and rechargeable batteries as standard accessory.
- Automated RCD testing procedure.
- BT communication with PC, Android tablets and smart phones via BT dongle.
- PC SW EuroLink PRO for downloading of test results and report creation.
- EuroLink Android APP, data management tool (option).

## APPLICATION

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

## STANDARDS

- Functionality:  
EN 61557
- Other reference standards for testing:  
IEC/EN 60364-4-41;  
EN 61008;  
EN 61009;  
BS 7671;  
AS/NZ 3017;
- Electromagnetic compatibility (EMC):  
EN 61326
- Safety (LVD):  
EN 61010-1;  
EN 61010-031  
EN 31010-2-030  
EN 31010-2-032



## Technical specification

| Function              |                                 | Measuring range                                                                                                                                                                                                | Resolution                     | Accuracy                                                  |
|-----------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------|
| CONTINUITY            | Test Current 7 mA 2-wire        | 0.00 Ω ... 19.99 Ω<br>20.0 Ω ... 1999 Ω                                                                                                                                                                        | 0.1 Ω<br>1 Ω                   | ±(5 % of r. + 5 digits)                                   |
|                       | Test Current 200 mA 2-wire      | 0.00 Ω ... 19.99 Ω<br>20.0 Ω ... 199.9 Ω<br>200.0 Ω ... 1999 Ω                                                                                                                                                 | 0.01 Ω<br>0.1 Ω<br>1 Ω         | ±(3 % of r. + 3 digits)<br>±(5 % of r.)<br>±(5 % of r.)   |
| INSULATION RESISTANCE | Test Voltage 50/100/250 V       | 0.00 MΩ ... 19.99 MΩ<br>20.0 MΩ ... 99.9 MΩ<br>100.0 MΩ ... 199.9 MΩ                                                                                                                                           | 0.01 MΩ<br>0.1 MΩ              | ±(5 % of r. + 3 digits)<br>±(10 % of r.)<br>±(20 % of r.) |
|                       | Test Voltage 500/1000 V         | 0.00 MΩ ... 19.99 MΩ<br>20.0 MΩ ... 199.9 MΩ<br>200 MΩ ... 999 MΩ                                                                                                                                              | 0.01 MΩ<br>0.1 MΩ<br>1 MΩ      | ±(5 % of r. + 3 digits)<br>±(5 % of r.)<br>±(10 % of r.)  |
| RCD                   | RCD U <sub>c</sub>              | 0.00 V ... 19.99 V<br>20.0 V ... 99.9 V                                                                                                                                                                        | 0.1 V                          | (-0%/±15 %) of r. ± 10 digits<br>(-0%/±15 %) of r.        |
|                       | RCD (t) <sub>i</sub>            | 0.0 ms ... 40.0 ms<br>0.0 ms ... max.time                                                                                                                                                                      | 0.1 ms                         | ±1 ms<br>±3 ms                                            |
|                       | RCD I Ramp                      | 0.2xI <sub>ΔN</sub> ... 1.1xI <sub>ΔN</sub> (AC)<br>0.2xI <sub>ΔN</sub> ... 1.5xI <sub>ΔN</sub> (A),<br>I <sub>ΔN</sub> ≥ 30 mA<br>0.2xI <sub>ΔN</sub> ... 2.2xI <sub>ΔN</sub> (A),<br>I <sub>ΔN</sub> < 30 mA | 0.05xI <sub>ΔN</sub>           | ±0.1xI <sub>ΔN</sub>                                      |
| IMPEDANCE             | Zline L-L, L-N Ip <sub>sc</sub> | 0.00 Ω ... 9.99 Ω<br>10.0 Ω ... 99.9 Ω<br>100 Ω ... 999 Ω<br>1.00 kΩ ... 9.99 kΩ                                                                                                                               | 0.01 Ω<br>0.1 Ω<br>1 Ω<br>10 Ω | ±(5 % of r. + 5 digits)<br>±(5 % of r.)<br>±(10 % of r.)  |
|                       | Zloop L-PE, Ip <sub>fc</sub>    | 0.00 Ω ... 9.99 Ω<br>10.0 Ω ... 99.9 Ω<br>100 Ω ... 999 Ω<br>1.00 kΩ ... 9.99 kΩ                                                                                                                               | 0.01 Ω<br>0.1 Ω<br>1 Ω<br>10 Ω | ±(5 % of r. + 5 digits)<br>±(5 % of r.)<br>±(10 % of r.)  |
| VOLTAGE               | TRMS                            | 0 ... 550 V                                                                                                                                                                                                    | 1 V                            | ±(2 % of r. + 2 digits)                                   |
|                       | Frequency                       | 0.00 Hz ... 9.99 Hz<br>10.0 Hz ... 499.9 Hz                                                                                                                                                                    | 0.01 Hz<br>0.1 Hz              | ±(0.2 % of r. + 1 digits)                                 |
| EARTH RESISTANCE      | 3 wire                          | 0.00 Ω ... 19.99 Ω<br>20.0 Ω ... 199.9 Ω<br>200.0 Ω ... 9999 Ω                                                                                                                                                 | 0.01 Ω<br>0.1 Ω<br>1 Ω         | ±(5 % of r. + 5 digits)                                   |
| GENERAL               | Power supply                    | 9 VDC (6x1.5 V battery or accu, size AA)                                                                                                                                                                       |                                |                                                           |
|                       | Overvoltage category            | 1000 V DC CAT II; 600 V CAT III; 300 V CAT IV                                                                                                                                                                  |                                |                                                           |
|                       | Protection class                | double insulation                                                                                                                                                                                              |                                |                                                           |
|                       | COM port                        | USB, RS232                                                                                                                                                                                                     |                                |                                                           |
|                       | Weight                          | 1.3 kg                                                                                                                                                                                                         |                                |                                                           |
|                       | Size (l x h x w)                | 230 x 103 x 115 mm                                                                                                                                                                                             |                                |                                                           |

Distribuito da:



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## Ordering information

Standard set

MI 3100 SE



- Instrument EurotestEASI
- Schuko-plug test cable, 1.5 m
- Test lead, 3 x 1.5 m
- Test probe, 3 pcs (blue, black, green)
- Crocodile clip, 3 pcs (blue, black, green)
- Power supply adapter + 6 NiMH rechargeable batteries, size AA
- RS232 - PS/2 cable
- USB cable
- Soft carrying neck belt
- Soft carrying bag
- PC Software EuroLink PRO
- Short instruction manual
- Instruction manual on CD
- Handbook on CD
- Calibration certificate

## Optional accessories

| Photo | Order No. | Description                                                        |
|-------|-----------|--------------------------------------------------------------------|
|       | A 1401    | Tip commander (3-wire)                                             |
|       | A 1314    | Plug commander                                                     |
|       | A 1110    | Three phase adapter                                                |
|       | A 1111    | Three phase adapter with switch                                    |
|       | A 1201    | Insulated rod for CONTINUITY measurement                           |
|       | A 1202    | Additional extension part for A 1201                               |
|       | A 1164    | Test lead, black, 50 m                                             |
|       | A 1153    | Test lead, black, 20 m                                             |
|       | A 1154    | Test lead, black, 4 m                                              |
|       | A 1292    | Upgrade code EuroLink PRO to EuroLink PRO Plus                     |
|       | A 1431    | EuroLink Android APP                                               |
|       | A 1436    | BT dongle                                                          |
|       | A 1160    | Fast charger for 8 AA batteries with a set of 6 NiMH bat., type AA |
|       | S 2026    | Earth test set, 3-wire, 20 m                                       |
|       | S 2027    | Earth test set, 3-wire, 50 m                                       |

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