

MI3100SE EUROTESTEASI

- MULTIFUNCTIONAL ELECTRICAL INSTALLATION TESTER



MI3100SE 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. The MI3100SE 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, ZIn, Zs, Uc);
Auto TN/RCD (U, ZIn, Zs, Rpe);
Auto TN (U, ZIn, 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 & 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



MI3100SE

TECHNICAL SPECIFICATIONS



| Function | Measuring Range | Resolution | Accuracy | |
|-----------------------|----------------------------------|--|--------------------------------|--|
| CONTINUITY | Test Current 7 mA 2-wire | 0.00 Ω ... 19.99 Ω 20.0 Ω ... 1999 Ω | 0.1 Ω 1 Ω | ±(5% of r. + 5 digits) |
| | Test Current 200 mA 2-wire | 0.00 Ω ... 19.99 Ω 20.0 Ω ... 99.9 Ω 100.0 Ω ... 1999 Ω | 0.01 Ω 0.1 Ω 1 Ω | ±(3% of r. + 3 digits) ±(5% of r.) ±(5% of r.) |
| | Test Voltage 50/100/250V | 0.00 M Ω ... 19.99 M Ω 20.0 M Ω ... 99.9 M Ω 100.0 M Ω ... 199.9 M Ω | 0.01 M Ω 0.1 M Ω | ±(5% of r. + 3 digits) ±(10% of r.) ±(20% of r.) |
| INSULATION RESISTANCE | Test Voltage 500/1000V | 0.00 M Ω ... 19.99 M Ω 20.0 M Ω ... 199.9 M Ω 200 M Ω ... 999 M Ω | 0.01 M Ω 0.1 M Ω 1 M Ω | ±(5% of r. + 3 digits) ±(5% of r.) ±(10% of r.) |
| | RCD Uc | 0.00V ... 19.99V 20.0V ... 99.9V | 0.1V | (-0%/±15%) of r. ± 10 digits (-0%/±15%) of r. |
| RCD | RCD (t), | 0.00ms ... 40.0ms 0.0V ... max. time | 0.1ms | ±1ms ±3ms |
| | RCD I Ramp | 0.2xIΔN ... 1.1xIΔN (AC) 0.2xIΔN ... 1.5xIΔN (A), IΔN ≥30 mA) 0.2xIΔN ... 2.2xIΔN (A), IΔN <30 mA) | 0.05xIΔN | ±0.1xIΔN |
| | Zline, L-L, L-N Ipsc | 0.00 Ω ... 9.99 Ω 10.0 Ω ... 99.9 Ω 100 Ω ... 999 Ω 1.00 k Ω ... 9.99 k Ω | 0.01 Ω 0.1 Ω 1 Ω 10 Ω | ±(5% of r. + 5 digits) ±(10% of r.) |
| IMPEDANCE | Zloop, L-PE, IpfC | 0.00 Ω ... 9.99 Ω 10.0 Ω ... 99.9 Ω 100 Ω ... 999 Ω 1.00 k Ω ... 9.99 k Ω | 0.01 Ω 0.1 Ω 1 Ω 10 Ω | ±(5% of r. + 5 digits) ±(10% of r.) |
| | TRMS | 0 ... 550V | 1V | ±(2% of r. + 2 digits) |
| VOLTAGE | Frequency | 0.00 Hz ... 9.99 Hz 10.0 Hz ... 499.9 Hz | 0.01 Hz 0.1 Hz | ±(0.2% of r. + 1 digit) |
| EARTH RESISTANCE | 3 wire | 0.00 Ω ... 19.99 Ω 20.0 Ω ... 199.99 Ω 200.0 Ω ... 9999 Ω | 0.01 Ω 0.1 Ω 1 Ω | ±(5% of r. + 5 digits) |
| GENERAL | Power supply | 9 VDC (6x1.5V battery or accu, size AA) | | |
| | Overvoltage category | 1000V DC CAT II; 600V CAT III; 300V CAT IV | | |
| | Protection class | Double insulation | | |
| | COM port | BT ready, USB, RS232 | | |
| | Weight | 1.3kg | | |
| | Size (L x H x W) | 230x103x115mm | | |

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

ORDERING INFORMATION - Standard set



- 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 |
|-------|-----------|--|
| | A1401 | Tip commander (3-wire) |
| | A1201 | Insulated rod for CONTINUITY measurement |
| | A1202 | Additional extension part for A1201 |
| | A1153 | Test lead, black, 20m |
| | A1154 | Test lead, black, 4m |
| | A1292 | Upgrade code EuroLink PRO to EuroLink PRO Plus |
| | A1431 | EuroLink Android APP |
| | A1436 | BT dongle |
| | S2026 | Earth test set, 3-wire, 20m |
| | S2027 | Earth test set, 3-wire, 50m |

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