MI 3102 BT EurotestXE is a multifunctional measuring instrument which performs a complete set of installation safety tests according to IEC/EN 61557. It supports AUTO SEQUENCE® testing of the TN, TT and IT earthing systems. ISFL measurements and the IMD tests can be performed. Besides, the MI 3102 BT EurotestXE enables on-line voltage monitoring, phase sequence testing, earth resistance measurement, illumination measurement and TRMS current measurement. EurotestXE 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 DC test current with polarity change;
- Continuity of PE conductors with 7 mA test current without RCD tripping;
- Line/Loop impedance;
- Loop impedance with Trip Lock RCD function;
- TRMS voltage and frequency;
- Phase sequence;
- Power and harmonics;
- RCD testing (general and selective, type AC, A, F, B, B+);
- Earth resistance (3-wire and 2-clamps method);
- Specific earth resistance with Ro-adapter (option);
- TRMS leakage and load currents (option);
- First fault leakage current (ISFL);
- Testing of Insulation Monitoring Devices (IMDs);
- Illumination (option).

Key features:
- Predefined mini AUTOSEQUENCEs:
  - Auto TT (U, Zln, Zs, Uc);
  - Auto TN/RCD (U, Zln, Zs, Rpe);
  - Auto TN (U, Zln, Zlpe, Rpe);
  - Auto IT (U, Zln, Isc, Isfl, IMD).
- Power measurements and harmonics analysis
- 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 built-in BT.
- 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 and IT earthing systems.
- Medical installation testing.

STANDARDS
- Functionality:
  - EN 61557
  - DIN 5032
- Other reference standards for testing:
  - IEC/EN 60364-4-41;
  - EN 61008;
  - EN 61009;
  - BS 7671;
  - AS/NZ 3017;
  - CEI 64.8;
  - HD 384;
  - VDE 413
- Electromagnetic compatibility (EMC):
  - EN 61326
- Safety (LVD):
  - EN 61010-1;
  - EN 61010-031
  - EN 31010-2-030
  - EN 31010-2-032
## Technical specification

<table>
<thead>
<tr>
<th>Function</th>
<th>Measuring range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONTINUITY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Current 7 mA 2-wire</td>
<td>0.00 Ω ... 1999 Ω</td>
<td>1 Ω</td>
<td>±5 % of r. + 5 digits</td>
</tr>
<tr>
<td>Test Current 200 mA 2-wire</td>
<td>0.00 Ω ... 1999 Ω</td>
<td>1 Ω</td>
<td>±5 % of r. + 3 digits</td>
</tr>
<tr>
<td><strong>INSULATION RESISTANCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Voltage 50/100/250 V</td>
<td>0.00 MΩ ... 19.99 MΩ</td>
<td>0.01 MΩ</td>
<td>±(3 % of r.)</td>
</tr>
<tr>
<td>Test Voltage 500/1000 V</td>
<td>0.00 MΩ ... 199.9 MΩ</td>
<td>1 MΩ</td>
<td>±(2 % of r.)</td>
</tr>
<tr>
<td><strong>VOLTAGE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRMS, AC with A1018</td>
<td>0.0 mV ... 199.9 mV</td>
<td>0.1 mV</td>
<td>±(2 % of r. + 2 digits)</td>
</tr>
<tr>
<td><strong>CURRENT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRMS, AC with A1019</td>
<td>0.0 A ... 19.99 A</td>
<td>0.1 A</td>
<td>±(5 % of r.)</td>
</tr>
<tr>
<td>TRMS, AC/DC with A1391, range = 300A</td>
<td>0.0 A ... 199.9 A</td>
<td>10 A</td>
<td>±(5 % of r.)</td>
</tr>
<tr>
<td>Specific earth resistance</td>
<td>0.0 Ωm ... 100 Ωm</td>
<td>0.1 Ωm</td>
<td>±(3 % of r.)</td>
</tr>
<tr>
<td><strong>FIRST FAULT LEAKAGE CURRENT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMD TEST</td>
<td>0.1 mA ... 19.9 mA</td>
<td>0.1 mA</td>
<td>±5 % of 3 digits</td>
</tr>
<tr>
<td><strong>IMMUNANCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type B</td>
<td>0.01 lux ... 19.99 lux</td>
<td>0.1 lux</td>
<td>±5 % of r. + 2 digits</td>
</tr>
<tr>
<td>Type C</td>
<td>0.01 lux ... 19.99 lux</td>
<td>0.1 lux</td>
<td>±(20 % of r.)</td>
</tr>
<tr>
<td><strong>EARTH RESISTANCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 wire</td>
<td>0.00 Ω ... 199.9 Ω</td>
<td>0.1 Ω</td>
<td>±(5 % of r.)</td>
</tr>
<tr>
<td>2 clamp</td>
<td>0.00 Ω ... 199.9 Ω</td>
<td>0.1 Ω</td>
<td>±(3 % of r.)</td>
</tr>
<tr>
<td>Specific earth resistance</td>
<td>0.0 Ωm ... 100 Ωm</td>
<td>0.1 Ωm</td>
<td>±(2 % of r.)</td>
</tr>
<tr>
<td><strong>GENERAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>9 VDC (6 x 1.5 V battery or accu, size AA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>1000 V DC CAT II; 600 V CAT III; 300 V CAT IV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>double insulation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM port</td>
<td>BT, USB, RS232</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size (l x h x w)</td>
<td>230 x 103 x 115 mm</td>
<td></td>
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</tr>
</tbody>
</table>

## Ordering information

**Standard set**

- MI 3102 BT

**Optional accessories**

- Instrument EurotestXE
- Plug commander, 1.5 m
- Test lead, 3 x 1.5 m
- Earth test set, 3-wire, 20 m test lead, 4 m; 2 x test lead, 20 m; 2 x test roll
- Power supply adapter + 6 NiMH rechargeable batteries, size AA
- PC Software EuroLink PRO
- Test probe, 3 pcs (blue, black, green)
- Crocodile clip, 3 pcs (blue, black, green)
- RS232 - PS/2 cable
- USB cable
- Soft carrying neck belt
- Soft carrying bag
- Short instruction manual
- Instruction manual on CD
- Handbook on CD
- Calibration certificate

**Instruction manual on CD**

- EuroLink Android APP
- EuroLink PRO
- Additional extension part for A 1201
- A 1401 Tip commander (3-wire)
- A 1018 Current clamp (low range, leakage)
- A 1019 Current clamp
- A 1391 AC/DC Current clamp
- A 1100 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 1172 Luxmeter sensor, type B (PS/2)
- A 1173 Luxmeter sensor, type C (PS/2)
- A 1153 Test lead, black, 20 m
- A 1431 EuroLink Android APP
- A 1292 Upgrade code EuroLink PRO to EuroLink PRO Plus
- A 1160 Fast charger for 8 AA batteries with a set of 6 NiMH bat., type AA
- S 2027 Earth test set, 3-wire, 50 m
- A 1199 Ro-adapter

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