





## Short Description

The MI 3155 EurotestXD is the newest flagship of Metrel's most advanced line of multi-functional measuring instruments and is designed specifically for testing in industry.

What differentiates this instrument from the rest is its ergonomic design and an intuitive user interface, encompassing a memory organizer and fully programmable AUTO SEQUENCES, managed through a large colour touch screen display.

It is fully compliant with functionality standards (e.g. IEC/EN 61557) and other reference standards for testing (e.g. IEC/EN/HD 60364-4-41,...) as is required for any instrument that performs TRMS current measurements, RCD tests, line and loop impedance tests with 3 (and 4) wires and earth resistance measurements.

Besides those, the instrument supports a wide range of tests and measuring functions, including on-line voltage monitoring, phase sequence testing, varistor testing, PI/DAR calculation, luminance measurement, discharge time testing, ISFL measurements, IMD tests as well as functional and visual inspections.

### Measuring Functions

Live Transformer's Impedance Measurement with Four Wire Test;

Hi-precision Short Circuit Current evaluation with Calculated Hot factor;  
3-wire test of PE (RPE function) without extension lead conductor;  
Autotest insulation function between L-N, N-PE and L-PE (R ISO ALL function);  
4 wire continuity test;  
Insulation resistance with DC voltage from 50 V to 2500 V and PI, DAR calculation;  
Varistor test;  
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;  
2-wire and 3-wire high-current loop impedance (L-PE) measurement;  
3-wire loop impedance (L-PE) measurement with Trip Lock RCD function;  
Touch voltage / Contact voltage measurement with external P/S probe.  
2-wire and 3-wire line impedance (L-L, L-N) measurement;  
1-phase / 3-phase TRMS voltage and frequency measurements;  
Line, loop and RCD measurements at frequency range 16 ... 400 Hz;  
Phase sequence;  
Power and THD measurement (up to the 12th harmonic);  
RCD testing (general and selective, type AC, A, F, B, B+, MI RCD, EV RCD, PRCD, PRCD-K, PRCD-S);  
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);  
Machine mode support with time discharge;  
Illumination (option);  
High resolution Loop impedance (mΩ) (option);  
EVSE (Electrical Vehicle Supply Equipment) support (option);  
Determining location of cables (option);  
QR and/or barcode scanner support (option).

## Features

Programmable AUTO SEQUENCES.

Predefined profile dependent AUTO SEQUENCES.

Predefined Automatic tests:

- Auto TT (U, ZIn, Zs, Uc);
- Auto TN/RCD (U, ZIn, Zs, Rpe);
- Auto TN (U, ZIn, Zlpe, Rpe);
- Auto IT (U, ZIn, Isc, Isfl, IMD).

Functional inspections.

Visual inspections.

Custom inspections (visual and functional) which may be incorporated into AUTO SEQUENCES.

EVSE AUTO SEQUENCES and function inspections.

Machine functional and visual inspections.

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.

Automated RCD testing procedure (RCD AUTO).

Automated Impedance testing procedure (Z AUTO).

Measurement filtering according to the selected area group.

Built-in charger and rechargeable batteries as standard accessory.

BT communication with PC, Android tablets and smart phones via built-in BT.

### Kit Contents

- Instrument MI 3155 EurotestXD
- 4400 mAh battery pack
- Power supply adapter 12V/3A
- Tip commander + 2 x bat. AAA
- Mains plug cable 1,5 m
- Test lead green 1,5 m
- Test lead, 4-wire, 1,5 m
- Test lead, 3-wire, 1,5 m
- Test lead, 2-wire, 2,5 kV, 1.5 m
- Test probe, 6 pcs (black, brown, blue, green-2, red)
- Crocodile clip, 7 pcs (black-2, brown, blue, green, red-2)
- Earth set, 3-wire 20 m
- USB cable
- Soft carrying bag
- Soft carrying neck belt
- Metrel ES Manager BASIC license\*
- Short instruction manual
- Instruction manual (CD)
- Guide for testing and verification of Low voltage installations (CD)
- Calibration certificate
- Metrel ES Manager (program installation) A 1481 (CD)

\*Metrel ES Manager can be downloaded free of charge from Metrel Web server.

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