

## Recommended accessories for support industrial applications

Photo	Part No.:	Description	Target application
	A 1143	Euro Z 290 A	Euro Z 290 A is an impedance tester, which enables line / loop impedance measurements with accuracy down to 0.1 mΩ.
	A 1199	Ro-adapter	Ro-adapter is intended for performing earth resistance measurements in combination with installation safety tester.
	CS 2099	Eurocheck	Eurocheck is a professional multifunctional field calibrator intended for use with installation safety testers.
	A 1172	Luxmeter sensor, type B (PS/2)	Luxmeter sensor, type B, for high-accuracy illuminance measurements; e.g. for emergency lightning inspection.
	A 1314 A 1401	Plug commander Tip commander	Single phase, 3-wire, commander with TEST and MEM function and a RGB LED indicator for easy insulation safety measurements.
	A 1018	Current clamp (low range, leakage)	High accuracy current clamp 1000 A / 1 A with 52 mm jaw opening and fixed 1.5 m cable for both load and low range / leakage current measurements as well as for earth resistance measurements.
	A 1019	Current clamp	Current clamp 1000 A / 1 A with 52 mm jaw opening for general current measurements and in combination with A 1018 for earth resistance measurements without breaking the loop.
	S 2027	Earth test set, 3-wire, 50 m	Earth test set for earth resistance measurements for distances up to 50 m. The set includes: test lead, 50 m, 2 pcs; test lead, 4.5 m; test lead, 1 m, 2 pcs; earth spike, 2 pcs; soft carrying bag.
	P 1001	Licence key for advanced MES Manager	Licence key for upgrading the MES Manager to advanced version with professional report creation functionality.
	A 1198	Magnetic contact probe	Test probe with magnetic contact provides reliable contact with metal surfaces during the measurements.
	A 1201 A 1202	Insulated rod for continuity measurement	Insulated rod enables insulation resistance and continuity measurements on hard-to-reach objects, e.g. luminaries.
	A 1111 A 1215	Three phase adapter with switch	3-phase adapter with selection switch for installation safety testing on 3-phase sockets type 16 A 3CEE. The adapter allows seamless switching between measurements.

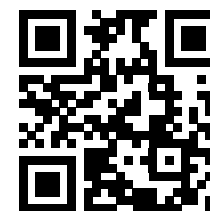
Functions:	
<b>AUTOSEQUENCE</b> ®	Auto TT (U, ZIn, Zs, Uc) Auto TN/RCD (U, ZIn, Zs, Rpe) Auto TN (U, ZIn, Zlpe, Rpe) Auto IT (U, ZIn, Isc, Isfi, IMD) TRMS Frequency
<b>Voltage TRMS</b>	3-Phase system (Phase SEQUENCE) Differential leakage current Test Current 7 mA 2-wire Test Current 200 mA 2-wire Rpe 200 mA 3-wire Ring Test 200 mA (UK installations) Ring Auto 200 mA (UK installations)
<b>Three Phase</b>	Test Voltage 50 V Test Voltage 100 V Test Voltage 250 V Test Voltage 500 V Test Voltage 1000 V Test of IMD, ELM, RCM Automatic Discharge Differential Leakage Leakage Current (with optional Clamp) ISFL: L1, L2 (First Fault Leakage) AC Insulation Leakage Zline L-L, L-N Ipsc Zloop L-PE, Ipfc Zs (rcd) Zref, ΔU%
<b>Earth Bond / Continuity</b>	Fuse Tables Test Current 290 A 4-wire RCD type AC, A PRCD type AC, A RCD type F RCD type B, B+ RCD Uc RCD (t) RCD I Ramp RCD Auto PRCD-S, PRCD-K RCD 3-Phase Earth Resistance 2-wire, 3-wire Specific Earth Resistance 4-wire 2-Clamps Earth Resistance Apparent power - (S) Power P, Q, PF/Cos φ Harmonics AC Current DC Current TRMS Current Load test
<b>Insulation Resistance</b>	
<b>Leakage Current</b>	
<b>Z Line / Loop Impedance</b>	
<b>RCD</b>	
<b>Earth / Ground Resistance</b>	
<b>Functional</b>	

METREL d.d.  
Measuring and Regulation Equipment Manufacturer  
Ljubljanska 77, SI-1354 Horjul, Slovenia  
T +386 (0)1 75 58 200, F +386 (0)1 75 49 226  
metrel@metrel.si, www.metrel.si



## Low Voltage Electrical Installations Safety from Power Transformer to Connected Loads 2016

Measuring instruments and testers



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

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# Heavy industrial electrical installations safety testing with maintenance and troubleshooting support

## Hi-precision EIS Tester MI 3152 Eurotest XC with a set of Adapters for Residential, Industrial, Plant and Commercial Electrical Power Systems

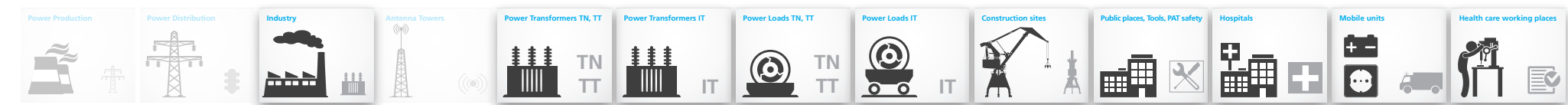
**AUTOSEQUENCE®** Patented Automatic Testing of TN/TT/IT Earthing Systems Managed by Innovative User Interface.

**Multifunctional All in One Portable Tester MI 3152 EurotestXC** with a set of adapters offers a unique solution for:

- Delivering High Standards of Quality and Safety,
- Automatic Procedures for Maintenance, Service or Development Testing,
- Sophisticated Support for TN/TT and IT Earthing Systems,
- Supporting Three Phase and Single Phase Systems,
- Heavy Industrial Ruggedness in Electrical Installations Safety,
- Automatic Testing of ISFL on an unearthed System and IMD Alarms for any Mobile Generator,
- Live Transformer's Impedance Measurement with Four Wire Test,
- Hi-precision Short Circuit Current evaluation with Calculated Hot factor.
- Special Installations Support for Medical Surgery Rooms.

**Recommended set:**

- A 1143 Euro Z 290 A Impedance
- CS 2099 Eurocheck Field Calibrator
- A 1201 and A 1202 Insulated Rod for Continuity
- A 1401 Tip Commander
- A 1111 Three Phase Adapter
- A 1314 Plug Commander
- A 1160 Fast Charger Set
- A1172 Luxmeter Sensor Type B
- A 1018 Current Clamp Leakage
- A 1019 Current Clamp Generator
- S 2027 Earth Test Set 50 m
- A 1199 Ro-adapter
- AP 1001 MESM Licence Code



**Standards Applied:**  
 IEC/EN 61557  
 IEC/EN/HD 60364-4-41  
 IEC/EN 61008  
 IEC/EN 61009  
 IEC/EN 61326-1  
 IEC/EN 61010-1  
 IEC/EN 61010-031  
 IEC/EN 61010-2-030  
 IEC/EN 61010-2-032  
 AS/NZ 3017  
 BS 7671

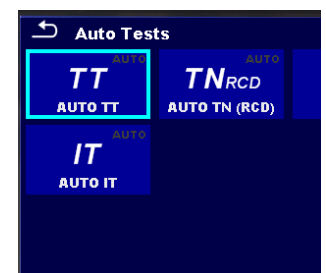


# AUTOSEQUENCE® trip-lock testing on single or three phase TN / TT / IT earthing systems

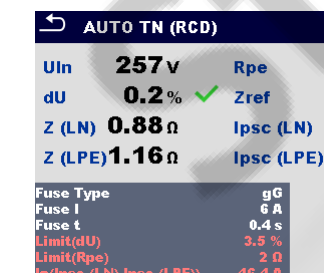
**Switchboard and Circuit Inspection** - Fast and simple browsing through menus and submenus enables the user to easily find, select and modify desired tests, testing sequences and parameters and incorporate them in the Memory structure. Obtained results from Single Tests or Autosequence Procedures can then be transferred to our Metrel ES Manager software for automatic report creation. Results from switchboard and/or circuit testing provide PASS/FAIL decisions on overall safety of the installation.



1. AUTOSEQUENCE for TN / TT / IT...



2. Referencing parameters at the switchboard...



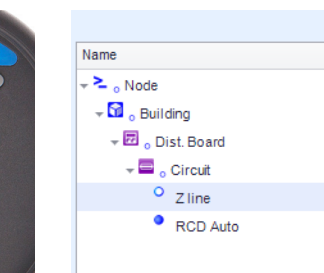
3. PASS / FAIL decisions...



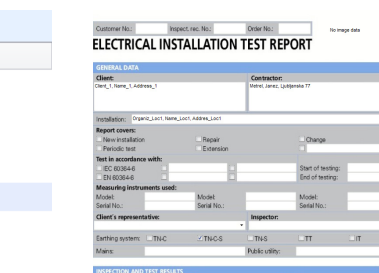
4. Multiple User Interface...



5. Metrel Electrical Safety Manager PCSW...

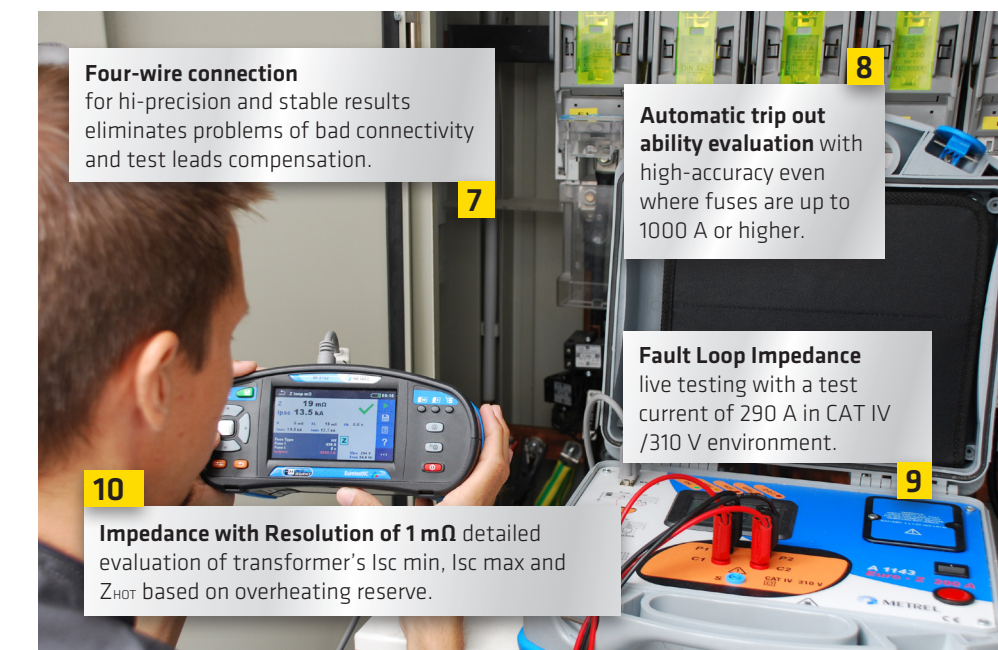


6. Professional Reports...



# HI-PRECISION impedance for automatic disconnection ability of industrial power installations

**Power Electrical Installation's Tripout Ability Testing** - Eurotest XC in connection with the Euro Z 290 A adapter is a professional portable high current 290 A, 4-wire Live Circuit and Power Transformers Impedance tester. HOT Factor is calculated within the result of Ipse min. and Ipfc min. representing an added value and unique solution where predicted reserve factor is evaluated in case of error on overheated transformers.



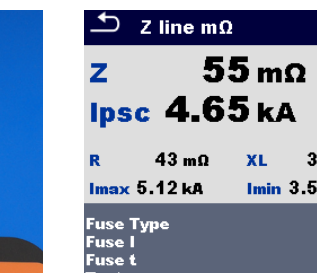
7. Four-wire type of Connection...



8,9. Hi-precision FUSE trip-out ability...



10. Impedance measurement with a Resolution of 1 mΩ...



11. Special installations Testing Support...



12,13. Current Clamps for Leakage and Conductive Loops...



14. Ground Resistance and Resistivity...

