

Multifunctional electrical installation tester

MI 3152 EurotestXC



MI 3152 EurotestXC is an instrument from the new generation of Metrel's multifunctional measuring instruments. The already well known functions like complete installation safety testing according to IEC/EN 61557 and AUTO SEQUENCE testing of TN, TT and IT earthing systems are managed by a completely new user interface based on large colour touch screen display. A wide range of functions is included: from on-line voltage monitoring, phase sequence testing, varistor testing, earth resistance measurement, illuminance measurement and TRMS current measurement up to RCD tests, line and loop impedance tests, specific earth resistance measurements as well as ISFL measurements and the IMD tests.



MEASURING FUNCTIONS

- Insulation resistance with DC voltage from 50 V to 1000 V;
- **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;
- Line/Loop impedance combined also in one function **Z AUTO**;
- Loop impedance with Trip Lock RCD function;
- TRMS voltage and frequency measurements;
- 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);
- Illumination (option);
- High resolution Loop impedance (mΩ) (option);
- **EVSE AUTO SEQUENCES and function inspections.**
- Determining location of cables (option);
- QR and/or barcode scanner support (option).

KEY FEATURES

- **Predefined profile dependent AUTO SEQUENCES.**
- Predefined **Automatic tests:**
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).
- **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.
- **Automated Impedance testing procedure (Z AUTO).**
- **Functional inspections.**
- **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.
- PC SW **Metrel ES Manager** (structure and report creation, data upload/download).
- Optional **aMESM Android APP** (structure and report creation, data upload/download).

APPLICATION

- Testing of TT, TN and IT systems;
- Testing of single and multiphase systems;
- Initial and periodic testing of domestic installations;
- Maintenance;
- Lightning installations;
- Medical installation testing;
- Fire brigades, military and police vehicles;
- Construction sites;
- Mobile Video/Audio, Concert Halls, Fair Playground;
- Electrical Vehicle Supply Equipment (EVSE) testing.

STANDARDS

Functionality

- EN 61557; DIN 5032

Other reference standards for testing:

- IEC/EN/HD 60364-4-41;
- IEC/EN 61008; IEC/EN 61009;
- BS 7671; AS/NZ 3017

Electromagnetic compatibility (EMC):

- IEC/EN 61326-1

Safety

- IEC/EN 61010-1; IEC/EN 61010-031;
- IEC/EN 61010-2-030; IEC/EN 61010-2-032;



TECHNICAL SPECIFICATION

Function		Measuring range	Resolution	Accuracy
CONTINUITY	Test Current 7 mA 2-wire	0.00 Ω ... 19.99 Ω	0.1 Ω	±(5 % of r. + 3 digits)
		20.0 Ω ... 1999 Ω	1 Ω	
	Test Current 200 mA 2-wire	0.00 Ω ... 19.99 Ω	0.01 Ω	±(3 % of r. + 3 digits)
INSULATION RESISTANCE	Test Voltage 50/100/250 V	20.0 Ω ... 199.9 Ω	0.1 Ω	±(5 % of r.)
		200.0 Ω ... 1999 Ω	1 Ω	
	Test Voltage 500/1000 V	0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of r. + 3 digits)
		20.0 MΩ ... 99.9 MΩ	0.1 MΩ	±(10 % of r.)
RCD	RCD Uc	0.00 V ... 19.99 V	0.1 V	(-0%/+15 %) of r. ±10 digits (-0%/+15 %) of r.
		20.0 V ... 99.9 V		
	RCD (t), RCD I Ramp	0.00 ms ... 40.0 ms 0.0 V ... max.time	0.1 ms	±1 ms ±3 ms
IMPEDANCE	Zline L-L, L-N Ipsc	0.2xIΔN ... 1.1xIΔN (AC)	0.05xIΔN	±0.1xIΔN
		0.2xIΔN ... 1.5xIΔN (A), IΔN ≥30 mA)		
0.2xIΔN ... 2.2xIΔN (A), IΔN <30 mA)				
0.2xIΔN ... 2.2xIΔN (B)				
Zloop L-PE, IpfC	0.00 Ω ... 9.99 Ω	0.01 Ω	±(5 % of r. + 5 digits)	
	10.0 Ω ... 99.9 Ω	0.1 Ω		
VOLTAGE	TRMS Frequency	100 Ω ... 999 Ω	1 Ω	±(10 % of r.)
		1.00 kΩ ... 9.99 kΩ	10 Ω	
CURRENT	TRMS, AC with A 1018	0.00 Ω ... 9.99 Ω	0.01 Ω	±(5 % of r. + 5 digits)
		10.0 Ω ... 99.9 Ω	0.1 Ω	
EARTH RESISTANCE	3 wire	0.00 Ω ... 19.99 Ω	0.01 Ω	±(5 % of r. + 5 digits)
		20.0 Ω ... 199.9 Ω	0.1 Ω	
FIRST FAULT LEAKAGE CURRENT	Threshold indicative insulation resistance	200.0 Ω ... 9999 Ω	1 Ω	±(5 % of r. + 5 digits)
		0.00 Ω ... 19.99 Ω	0.01 Ω	
ILLUMINANCE	Type B	0.00 Ω ... 19.99 Ω	0.01 Ω	±(10 % of r. + 10 digits)
		20.0 Ω ... 30.0 Ω	0.1 Ω	
GENERAL	Type C	30.1 Ω ... 39.9 Ω	0.1 Ω	±(30 % of r.)
		0.0 Ωm ... 99.9 Ωm	0.1 Ωm	
IMD TEST	Power supply	100 Ωm ... 999 Ωm	1 Ωm	±(5 % of r.) for Re 1 Ω ... 1999kΩ
		1.00 kΩm ... 9.99 kΩm	0.01 kΩm	
ILLUMINANCE	Type C	10.0 kΩm ... 99.9 kΩm	0.1 kΩm	±(10 % of r.) for Re 2 kΩ ... 19.99kΩ
		2.00 klux ... 19.99 klux	10 lux	
GENERAL	Overvoltage category	100 kΩm ... 9999 kΩm	1 kΩm	±(20 % of r.) for Re > 20 kΩ
		0.0 mA ... 19.9 mA	0.1 mA	
GENERAL	Protection class	5 ... 640 kΩ	5 kΩ	Indicative values, up to 128 steps
		0.01 lux ... 19.99 lux	0.01 lux	
GENERAL	COM port	20.0 lux ... 199.9 lux	1 lux	±(5 % of r.)
		200 lux ... 1999 lux	1 lux	
GENERAL	Weight	2.00 klux ... 19.99 klux	10 lux	±(10 % of r. + 3 digits)
		9 VDC (6x1.5 V battery or accu, size AA)		
GENERAL	Size (l x h x w)	1000 V DC CAT II; 600 V CAT III; 300 V CAT IV		
		230 x 103 x 115 mm		

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ORDERING INFORMATION



Standard set MI 3152 ST

- Instrument MI 3152 EurotestXC
- Plug commander, 1.5 m
- Test lead, 3 x 1.5 m
- Power supply adapter + 6 NiMH rechargeable batteries, type AA
- Test probe, 3 pcs (blue, black, green)
- Crocodile clip, 3 pcs (blue, black, green)
- Earth set 20 m
- RS232 - PS/2 cable
- USB cable
- Soft carrying bag
- Soft carrying neck belt
- Metrel ES Manager BASIC license*
- Short instruction manual

Euro set MI 3152 EU

- Instrument MI 3152 EurotestXC (set ST)
- Current clamp A 1018 (low range, leakage)
- Current clamp A 1019
- Metrel ES Manager PRO license*

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

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1143	Euro Z 290 A
	A 1199	Ro-adapter
	A 1191	Receiver R10K
	A 1018	Current clamp (low range, leakage)
	A 1019	Current clamp
	A 1110	Three phase adapter
	A 1111	Three phase adapter with switch
	A 1314 BLK	Plug commander
	A 1401 BLK	Tip commander
	A 1172	Luxmeter sensor, type B (PS/2)
	A 1173	Luxmeter sensor, type C (PS/2)
	A 1105	Barcode scanner
	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
	P 1101	BASIC to PRO licence key upgrade for Metrel ES Manager

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

Diensten van EURO-INDEX

EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via EURO-INDEX Academy en verhuur van instrumenten.

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Kalibratielaboratorium

Het laboratorium in Nederland beschikt over een RvA accreditatie naar EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105. RvA kalibratiecertificaten zijn internationaal geaccepteerd en is gelijkwaardig aan BELAC.



Mobiele Service

Naast de vaste kalibratielaboratoria in Zaventem en Capelle aan den IJssel beschikken wij ook over een laboratorium op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal (mijnkws.be) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

EURO-INDEX Academy

- Trainingen, seminars en workshops
- Demonstratie- en instructievideo's
- Application notes



Servicebalie



Onderhoud, reparatie en kalibratie



Trainingen en seminars



Mobiele Service

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