

Multifunctional electrical installation tester MI 3152 EurotestXC

DENVER
metrología electrónica, S.L.

NEW



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, earth resistance measurement, illuminance measurement and TRMS current measurement up to RCD tests, line and loop impedance tests, 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;
- 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);
- High resolution Loop impedance (m Ω) (option).

KEY FEATURES

- Predefined mini AUTOSEQUENCES:
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).
- 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.
- 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 for creation of test structures and uploading, downloading of test results and report creation.
- EuroLink Android APP, data management tool (option).

APPLICATION

- Testing on high and low frequency installations e.g. testing in aviation, railway networks etc.;
- Testing of single and multiphase systems;
- Testing of TT, TN and IT systems;
- High volume testing (industrial, aircraft, railway, mining, chemistry, ferry boat);
- Medical installation testing.

STANDARDS

Functionality

- EN 61557

Other reference standards for testing:

- IEC/EN/HD 60364-4-41
- IEC/EN 61008
- IEC/EN 61009
- BS 7671
- AS/NZ 3017
- DIN 5032

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)
		20.0 Ω ... 199.9 Ω	0.1 Ω	±(5 % of r.)
INSULATION RESISTANCE	Test Voltage 50/100/250 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.)
	Test Voltage 500/1000 V	100.0 MΩ ... 199.9 MΩ	0.1 MΩ	±(20 % of r.)
		0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of r. + 3 digits)
RCD	RCD Uc	0.00 V ... 19.99 V	0.1 V	(-0%/+15 %) of r. ±10 digits
		20.0 V ... 99.9 V	0.1 V	(-0%/+15 %) of r.
	RCD (t),	0.00 ms ... 40.0 ms	0.1 ms	±1 ms
	RCD I Ramp	0.0 V ... max.time	0.1 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)		
VOLTAGE	TRMS Frequency	0.00 Hz ... 9.99 Hz	0.01 Hz	±(2 % of r. + 2 digits)
		10.0 Hz ... 99.9 Hz	0.1 Hz	±(0.2 % of r. + 1 digits)
		100 Hz ... 999 Hz	1 Hz	
		1.00 kHz ... 9.99 kHz	10 Hz	±(10 % of r.)
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	±(3 % of r.)
		100 Ω ... 999 Ω	1 Ω	±(3 % of r.)
		1.00 kΩ ... 9.99 kΩ	10 Ω	±(10 % of r.)
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	
		200.0 Ω ... 9999 Ω	1 Ω	
		0.00 Ω ... 19.99 Ω	0.01 Ω	±(10 % of r. + 10 digits)
FIRST FAULT LEAKAGE CURRENT	IMD TEST	2.00 A ... 19.99 A	0.01 A	±(3 % of r. + 3 digits)
		20.0 A ... 39.9 A	0.1 A	±(3 % of r.)
		0.00 A ... 19.99 A	0.01 A	indicative
		20.0 A ... 39.9 A	0.1 A	±(5 % of r.)
GENERAL	Power supply	0.00 A ... 99.9 mA	0.1 mA	indicative
		100 mA ... 999 mA	1 mA	±(5 % of r.)
		1.00 A ... 19.99 A	0.01 A	±(3 % of r.)
		0.00 A ... 1.99 A	0.01 A	±(3 % of r. + 3 digits)
GENERAL	Overvoltage category	0.00 A ... 1.99 A	0.01 A	±(3 % of r. + 3 digits)
		2.00 A ... 19.99 A	0.01 A	±(3 % of r.)
		20.0 A ... 39.9 A	0.1 A	±(3 % of r.)
		0.00 A ... 19.99 A	0.01 A	indicative
GENERAL	Protection class	0.00 A ... 19.99 A	0.01 A	indicative
		20.0 A ... 39.9 A	0.1 A	indicative
		40.0 A ... 299.9 A	0.1 A	±(3 % of r. + 5 digits)
		0.00 Ω ... 19.99 Ω	0.01 Ω	±(10 % of r. + 10 digits)
GENERAL	COM port	20.0 Ω ... 30.0 Ω	0.1 Ω	±(20 % of r.)
		30.1 Ω ... 39.9 Ω	0.1 Ω	±(30 % of r.)
		0.0 Ωm ... 99.9 Ωm	0.1 Ωm	±(5 % of r.) for Re 1 Ω ... 1999kΩ
		100 Ωm ... 999 Ωm	1 Ωm	±(10 % of r.) for Re 2 kΩ ... 19.99kΩ
GENERAL	Weight	10.0 kΩm ... 99.9 kΩm	0.1 kΩm	±(10 % of r.) for Re 2 kΩ ... 19.99kΩ
		100 kΩm ... 9999 kΩm	1 kΩm	±(20 % of r.) for Re > 20 kΩ
		0.0 mA ... 19.9 mA	0.1 mA	±(5 % of r. + 3 digits)
		5 ... 640 kΩ	5 kΩ	Indicative values, up to 128 steps
GENERAL	Size (l x h x w)	0.01 lux ... 19.99 lux	0.01 lux	±(5 % of r. + 2 digits)
		20.0 lux ... 199.9 lux	0.1 lux	
		200 lux ... 1999 lux	1 lux	±(5 % of r.)
		2.00 klux ... 19.99 klux	10 lux	
GENERAL	Type B	0.01 lux ... 19.99 lux	0.01 lux	±(10 % of r. + 3 digits)
		20.0 lux ... 199.9 lux	0.1 lux	
		200 lux ... 1999 lux	1 lux	±(10 % of r.)
		2.00 klux ... 19.99 klux	10 lux	
GENERAL	Type C	9 VDC (6x1.5 V battery or accu, size AA)		
		1000 V DC CAT II; 600 V CAT III; 300 V CAT IV		
		double insulation		
		BT, USB, RS232		
GENERAL	Weight	1.3 kg		
		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
- PC Software Metrel ES Manager
- 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
- Licence for Advanced PC Software Metrel ES Manager

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1143	Euro Z 290 A
	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	Plug commander
	A 1401	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 1001	Licence key for advanced Metrel ES Manager