MI 3152 InstalTestXC Multifunctional electrical installation tester



MI 3152 InstalTestXC is an instrument from AUTO SEQUENCE testing of TN, TT and IT completely new user interface based on large colour touch screen display. A wide range of functions is included: from on-line voltage measurement, illuminance measurement and TRMS current measurement up to RCD tests, line and loop

MEASURING FUNCTIONS

- Insulation resistance with DC voltage from 50 V to 1000 V;
- Varistor test;
- Continuity of PE conductors with 200 mA DC Auto TT (U, Zln, Zs, Uc);
- 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;
- Phase sequence;
- Power and (up to the 12th harmonic);
- 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 impendence (mΩ) (option);
- Determining location of cables (option);
- Added QR and/or barcode scanner support (option).

KEY FEATURES

- Predefined profile dependent AUTOSEQUENCEs.
- Predefined Automatic tests:
- 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.
- Added functional inspections.
- Added possibility of filtering available measurements according to the selected area group.
- Built-in charger and rechargeable batteries
 IEC/EN 61326-1 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.
- Support for aMESM 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, ferrv boat):

Medical installation testing

 Electrical Vehicle Supply Equipment 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):

Safetv:

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

IEC/EN 61010-2-032



		Measuring range	Resolution	Accuracy	
CONTINUITY	Test Current 7 mA	0.00 Ω 19.99 Ω	0.1 Ω	±(5 % of r. + 3 digits)	
	2-wire	20.0 Ω 1999 Ω	1Ω		
	Test Current 200 mA	0.00 Ω 19.99 Ω	0.01Ω	±(3 % of r. + 3 digits)	
	2-wire	20.0 Ω 199.9 Ω	0.1 Ω	±(5% of r.)	
	T	200.0 Ω 1999 Ω	<u>1Ω</u>	±(5 % of r.)	
	Test Voltage	0.00 ΜΩ 19.99 ΜΩ	0.01 MΩ	\pm (5 % of r. + 3 digits)	
RESISTANCE	50/100/250 V	20.0 MΩ 99.9 MΩ	0.1 MO	$\pm(10\% \text{ of r.})$	
	Tect Voltage	100.0 MΩ 199.9 MΩ	0.1 MΩ	±(20 % of r.)	
	Test Voltage 500/1000 V	0.00 ΜΩ 19.99 ΜΩ	0.01 MΩ	±(5 % of r. + 3 digits)	
	500/1000 V	20.0 MΩ 199.9 MΩ	0.1 ΜΩ 1 ΜΩ	±(5 % of r.)	
RCD	RCD Uc	200 MΩ 999 MΩ 0.00 V 19.99 V	1 1/112	±(10 % of r.) (-0%/+15 %) of r. ± 10 digits	
	KLD UL	20.0 V 99.9 V	0.1 V	(-0%/+15%) of r.	
	RCD (t),	0.00 ms 40.0 ms		±1ms	
	RCD (I),	0.0 V max.time	0.1 ms	±3 ms	
	RCD I Ramp	$0.2xI\Delta N \dots 1.1xI\Delta N$ (AC)		201113	
	Rebindinp	$0.2xI\Delta N \dots 1.5xI\Delta N$ (A),			
		I∆N ≥30 mA)			
		$0.2xI\Delta N \dots 2.2xI\Delta N$ (A),	0.05xI∆N	±0.1xI∆N	
		$I\Delta N < 30 \text{ mA}$			
		0.2xIΔN 2.2xIΔN (B)			
IMPEDANCE	Zline L-L, L-N Ipsc	0.00 Ω 9.99 Ω	0.01 Ω		
		10.0 Ω 99.9 Ω	0.1 Ω	±(5 % of r. + 5 digits)	
		100 Ω 999 Ω	1Ω	1000 -5	
INSULATION RESISTANCE		1.00 kΩ 9.99 kΩ	10 Ω	±(10 % of r.)	
	Zloop L-PE, Ipfc	0.00 Ω 9.99 Ω	0.01 Ω	±(5 % of r. + 5 digits)	
	Track of the large	10.0 Ω 99.9 Ω	0.1 Ω	_(3 10 01 11 1 3 digita)	
		100 Ω 999 Ω	1Ω	±(10 % of r.)	
		1.00 kΩ 9.99 kΩ	10 Ω		
VOLTAGE	TRMS	0 550 V	1V	±(2 % of r. + 2 digits)	
	Frequency	0.00 Hz 9.99 Hz	0.01 Hz	· · · · · · · · · · · · · · · · · · ·	
	(induction)	10.0 Hz 499.9 Hz	0.1 Hz	±(0.2 % of r. + 1 digits)	
TIRRENT	TRMS, AC with A 1018	0.0 mA 99.9 mA	0.1 mA	±(5 % of r. + 5 digits)	
UNIVERIT	TRMD, AC WILL A 1010	100 mA 999 mA	1mA	\pm (3 % of r. + 3 digits)	
		1.00 A 19.99 A	0.01 A	±(3 % of r.)	
	TRMS, AC with A 1019	0.0 mA 99.9 mA	0.1 mA	idicative	
	ITTNIS, AC WITH A 1015	100 mA 999 mA	1mA	±(5 % of r.)	
		1.00 A 19.99 A	0.01 A	±(3 % of r.)	
	TRMS, AC/DC with	0.00 A 1.99 A	0.01 A	±(3 % of r. + 3 digits)	
	A 1391, range=40 A	2.00 A 19.99 A	0.01 A	±(3 % of r.)	
	i i i i i i i i i i i i i i i i i i i	20.0 A 39.9 A	0.1 A	±(3 % of r.)	
	TRMS, AC/DC with	0.00 A 19.99 A	0.01 A	idicative	
	A 1391, range = 300 A	20.0 A 39.9 A	0.1 A	idicative	
		40.0 A 299.9 A	0.1 A	±(3 % of r. + 5 digits)	
EARTH	3 wire	0.00 Ω 19.99 Ω	0.01 Ω	- · · · · ·	
RESISTANCE		20.0 Ω 199.9 Ω	0.1 Ω	±(5 % of r. + 5 digits)	
NESISI ANCE		200.0 Ω 9999 Ω	1Ω	3	
	2 clamp	0.00 Ω 19.99 Ω	0.01 Ω	±(10 % of r. + 10 digits)	
		20.0 Ω 30.0 Ω	0.1 Ω	±(20 % of r.)	
		30.1 Ω 39.9 Ω	0.1 Ω	±(30 % of r.)	
	Specific earth	0.0 Ωm 99.9 Ωm	0.1 Ωm	±(5 % of r.) for Re 1 Ω	
	resistance	100 Ωm 999 Ωm	1Ωm	1999kΩ	
		1.00 kΩm 9.99 kΩm	0.01 kΩm	±(10 % of r.) for Re 2 kΩ	
		10.0 kΩm 99.9 kΩm	0.1 kΩm	19.99kΩ	
		100 kΩm 9999 kΩm	1kΩm	±(20 % of r.) for Re > 20 kf.	
		0.0 mA 19.9 mA	0.1 mA	±(5 % of r. + 3 digits)	
	Threshold indicative		- 1.0	Indicative values, up to 128	
	insulation resistance	5 640 kΩ	5 kΩ	steps	
ILLUMINANCE	Type B	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		
	Type C	0.01 lux 19.99 lux	0.01 lux	±(10 % of r. + 3 digits)	
	10 C C	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	,	
	Power supply	9 VDC (6x1.5 V battery o		7)	
	Overvoltage category	1000 V DC (6X1.5 V battery 0			
	Protection class	double insulation	CAT III; 500 V	CALIV	
GENERAL		BT, USB, RS232			
	COM port				
	Weight	1.3 kg			
	Size (x h x w)	230 x 103 x 115 mm			

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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Standard set MI 3152 InstalTest XC

- Instrument MI3152 Instaltest XC
- Mains measuring cable, 1.5m (AU PLUG)
- Test lead, 1.5m (brown, blue, green)
- Test probe, 3 pcs (brown, blue, green)
- Crocodile clip, 3 pcs (brown, blue, green)
- Test lead, green, 20m
- USB cable
- RS232-PS/2 cable
- AC adaptor (charger)
- NIMH rechargeable batteries, AA, 6 pcs
- Soft carry bag
- Soft carrying neck belt
- Quick guide manual
- ES Manager BASIC reporting software (download) •
- Calibration certificate

Optional Accessories

Photo	Order No.	Description
	S 2027	Earth test set ,3- wire, 50m
	A 1143	Euro Z 290A
<i>i</i>	A 1199	Ro-adapter
	A 1191	Receiver R10k
	A 1018	Current clamp (low range, leakage)
	A 1019	Current clamp
	MI-TPI-20A- 4-20A	4 pin, 20A three phase adaptor
	MI-TPI-20A- 5-20A	5 pin, 20A three phase adaptor
	MI-TPI-32A- 4-32A	4 pin, 32A three phase adaptor
	MI-TPI-32A- 5-32A	5 pin, 32A three phase adaptor
	A 1172	Luxmeter sensor type B (PS/2)
\$	A 1173	Luxmeter sensor, Type C (PS/2)
16	A 1401 BLK	Tip Commander
1	4087363	Bluetooth scanner
	A 1195	Resistor box

MI 3152 InstalTest XC - Features and Overview



The MI 3152 Instaltest XC is a revolutionary touch screen multifunction installation tester for live and dead installation testing, verification and diagnosis, as well as high volume RCD testing with scanning of asset IDs with an optional Bluetooth scanner. The testers intuitive smartphone like interface can be operated via the colour touch screen or the tactile buttons, menus are easily navigated and test results are clear and easy to save for later assessment with the PC software Metrel ES manager. You can also use the optional aMESM android app to

Auto Sequences®	
Auto Sequences®	_
🔹 📄 Socket Tests	
🖃 📠 Installation Tests	
LIVE with RCD Test	
LIVE No RCD Test	
DEAD Test	

Auto Sequences combine several single tests into a single key press operation



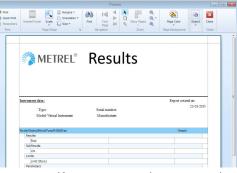
AS/NZS3017



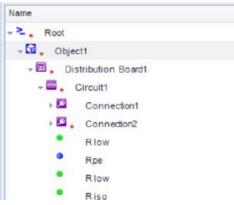
Unique Tree-Structure for organising test sites and results in the memory organiser



Many optional accessories like current clamps for leakage and conductive loops



Create pdf printouts with test results using included Metrel ES Manager



The PC software can be used for setting up and organising installation structures

YOU MAY ALSO WANT TO CONSIDER:

The NEW MI3155 Instaltest XD is Metrel's flagship model multifunction electrical installation tester, it offers all the same excellent features of the MI3152 along with some additional key features such as auto sequence customisation, large li-ion battery pack, pro upgrade license for the Metrel ES manager software, extra test functions and more!

