MI 3394 CE MultiTesterXA



The MI 3394 CE MultiTesterXA is a portable instrument intended for electrical safety testing and CE certification of electrical appliances, machines and switchboards during the production. The instrument features in strong data management facility enabling the user to create custom autotests with predefined limits for pass/fail evaluation, to import predefined structure including test sequences or complete projects from PC software, plus strong memory organizer. The PC software MES-Manager enables the upload of automated test sequences, projects, downloading of test results to the PC, automatic data storage into a file, printing of test reports. Due to selected test functions, durable construction and accompanying PC SW package CE MultiTesterXA is the perfect instrument for electrical safety testing in the most demanding environments like laboratories, automated production lines or specialized workshops.

KEY FEATURES:

- Data management: the instrument features in unique user friendly data management facility and state of the art memory organizer.
- Multiple test terminals: different test terminals enabling the user to chose from performing single tests or autosequences from single test socket.
- Auto testing: autosequences can be composed via instruments intuitive sequence organizer.
- MicroSD: support for microSD memory card (8-GB supplied with the instrument) up to 32GB.
- Colour display: 3.4 " colour LCD display with touch screen.
- Hi-pot: high voltage AC (5kV at 500VA) and DC (6kV) test.
- Continuity: 4 wire continuity test with selectable test current (0.2 A, 4 A, 10A, 25A) enabling precise measurements.
- Communication: 4 RS232, USB, Ethernet and Bluetooth communication ports enabling downloading, uploading and remote control over instrument.
- Multi-system testing: the instrument can be used on TT, TN, IT and 115 V supply systems.

MEASURING FUNCTIONS:

- High Voltage, programmed (AC/DC).
- High Voltage burn-out test.
- Continuity tests.
- Insulation resistance measurement.
- Substitute leakage current.
- Differential leakage current.
- Touch leakage current.
- PE-leakage current.
- Discharge time.
- Functional test (power P/S/Q, voltage, current, cosφ, frequency, ThdU, ThdI, PF).

Hi-Pot (flash), Earth (ground bond), Insulation resistance and other spedific tests



APPLICATIONS:

- Laboratories,
- Automated production lines,
- Specialized workshops.

STANDARDS:

Functionality

- IEC 60335 Household and similar electrical appliances
- 61439 Low-voltage switchgear and controlgear assemblies
- IEC 60598 Luminaires
- IEC 60950 Safety of information technology equipment
- IEC 61010 Safety requirements for electrical equipment
- VDE 0701-702 Inspection after repair, modification of electrical appliances

 Periodic inspection on electrical appliances General requirements for electrical safety
- EN 50191 Erection and operation of electrical test equipment

Safety (LVD):

EN 61010-1; EN 61010-2-030; EN 61010-031; EN 61557

EMC: EN 61326-1



Technical data:

Function	Measuring range	Resolution	Accuracy	
HVAC, Programmable H	VAC (100 V 5000 V); 10 V st	ep		
Test voltage (AC)	0 ÷ 1999 V	1 V	± (3 % of reading)	
	2.00 ÷ 5.99 kV	10 V	± (3 % of reading)	
Test current			10.01 5	
apparent capacitive	0.0 ÷ 99.9 mA 0.0 mA ÷ 99.9 mA	0.1 mA 0.1 mA	± (3 % of reading + 3 D) Indicative	
resistive	-99.9 mA ÷ 99.9 mA	0.1 mA	Indicative	
HVDC, Programmable H	VDC (100 V 6000 V); 50 V st	ер		
Test voltage (DC)	0 ÷ 1999 V	1 V	± (3 % of reading)	
	2.00 ÷ 6.99 kV	10 V	± (3 % of reading)	
Test current	0.01 ÷ 9.99 mA	0.01 mA	± (5 % of reading + 3 D)	
Discharging time				
t	0.0 ÷ 9.9 s	0.1 s	± (5 % of reading + 3 D)	
Up	0 ÷ 550 V	1 V	± (5 % of reading + 3 D)	
Continuity (0.2A, 4A, 10	A, 25A)			
	$0.00 \Omega \div 19.99 \Omega$ 20.0 $\Omega \div 99.9 \Omega$	0.01Ω 0.1Ω	± (2 % of reading + 2 D) ± 3 % of reading	
R	$100.0 \Omega \div 99.9 \Omega$ $100.0 \Omega \div 199.9 \Omega$	0.1Ω 0.1Ω	± 3 % of reading ± 5 % of reading	
	$200 \ \Omega \div 999 \ \Omega$	1 Ω	Indicative	
Insulation resistance (250	V, 500 V, 1000 V), Insulation res	istance – S (250 V, 500	V, 1000 V)	
Riso/Riso-s	0.00 M Ω \div 19.99 M Ω	0.01 M Ω	± (3 % of reading + 2 D)	
	$20.0 \text{ M} \Omega \div 199.9 \text{ M} \Omega$	0.1 M Ω		
Output voltage	0 V ÷ 1200 V	1 V	± (3 % of reading + 2 D)	
Insulation resistance (50	V, 100 V), Insulation resistant			
Riso/Riso-s	$\begin{array}{c} \textbf{0.00} \mbox{ M} \ \Omega \div \textbf{19.99} \mbox{ M} \ \Omega \\ \textbf{20.0} \mbox{ M} \ \Omega \div \textbf{199.9} \mbox{ M} \ \Omega \end{array}$	0.01 M Ω 0.1 M Ω	± (3 % of reading + 2 D) ± 5 % of reading	
Output voltage	0 V ÷ 1200 V	1 V	± (3 % of reading + 2 D)	
	n circuit voltage <50 V a.c.)			
Isub / Isub s	0.00 mA ÷ 19.99 mA	10 µA	± (5 % of reading + 3 D)	
		ΤΟ μΑ	± (5 % 01 reduing + 5 D)	
Differential Leakage cur		0.01 1	(0.0) () () ()	
ldiff	0.00 mA ÷ 19.99 mA	0.01 mA	± (3 % of reading + 5 D)	
PE leakage current				
lpe	0.00 mA ÷ 19.99 mA	0.01 mA	± (3 % of reading + 3 D)	
Touch leakage current				
Itou	0.00 mA ÷ 19.99 mA	0.01 mA	± (3 % of reading + 3 D)	
Power		1		
P	0 W ÷ 999 W	1 W 10 W	± (5 % of reading + 5 D) ± 5 % of reading	
	1.00 kW ÷ 3.70 kW 0 VA ÷ 999 VA	1 VA	± 5 % of reading ± (5 % of reading + 5 D)	
S	1.00 kVA ÷ 3.70 kVA	10 VA	± 5 % of reading	
Q	±(0 ÷ 999) VAr	1 VAr	± (5 % of reading + 5 D)	
	±(1.00 ÷ 3.70) kVAr	10 VAr		
PF	0.00i ÷ 1.00i 0.00c ÷ 1.00c	0.01 0.01	± (5 % of reading + 5 D) ± (5 % of reading + 5 D)	
THDU	0.0% ÷ 99.9%	0.1%	±(5 % of reading + 5 D)	
THDI	0.0% ÷ 99.9%	0.1%	±(5 % of reading + 5 D)	
	0.00i ÷ 1.00i	0.01	±(5 % of reading + 5 D)	
Cos Phi	0.00c ÷ 1.00c	0.01	±(5 % of reading + 5 D)	
U	0.1 V ÷ 199.9 V	0.1	\pm (3 % of reading + 10 D)	
	200 V ÷ 264 V	1 V	±(3 % of reading)	
	0.00 A ÷ 16.00 A	0.01	±(3 % of reading + 5 D)	
Power supply		110 V / 230 V AC, 50 Hz / 60 Hz		
Overvoltage category		CAT II / 300 V, CAT II / 600 V (DISCH1 / DISCH2, only)		
overvoltage category		1		
Protection class	1			
	5 kV a.c. / 6 kV d.c., doubl	e insulation		
Protection class				
Protection class HV output	5 kV a.c. / 6 kV d.c., doubl	thernet, 1 x Bluetooth		



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Standard set MI 3394 • Instrument CE MultiTesterXA

Ordering information

- HV test pistol with 2 m cable, 2 pcs
- Continuity test lead, 2.5 m, 2 pcs
- Continuity test lead, red, 1.5 m, 1pcs
- Insulation test lead, red, 2.5 m
- Insulation test lead, black, 2.5 m
- Crocodile clip, black, 3 pcs
- Crocodile clip, red, 2 pcs
- Discharge time cable
- Mains cable
- Bag for accessories
- Calibration certificate
- RS232 cable
- USB cable
- CD with instruction manual (full version)
- PC SW Metrel ES Manager

Optional accessories

Photo	Order No.	Decription
\searrow	A 1014	Test tip, black
\searrow	A 1016	Test tip, red
0	A 1017	EXT/DOOR IN cable
\sim	A 1060	Two way mains adapter
~	A 1105	Barcode scanner
Ø	S 1058	CONTINUITY test lead, 10 m, 2 pcs
æ,	S 1072	CONTINUTY test lead with 2 pole aligator clip, 2.5 m, set of 2 pcs
	A 1458	SanDisk MicroSD card reader
a suit	A 1079	Discharge time cable

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