

Hi-Pot (flash), Earth (ground bond), Insulation resistance and other specific tests MI 3394 CE MultiTesterXA

NEW



MEASURING FUNCTIONS

- High Voltage, programmed (AC/DC).
- 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, cos ϕ , frequency, ThdU, ThdI, PF).

KEY FEATURES

- Data management: the instrument features a unique user friendly data management facility and state of the art memory organizer.
- Multiple test terminals: different test terminals enabling the user to choose from performing single tests or autosequences from single test socket.

- Support for Test Adapter: A 1460 CE ADAPTER enables execution of auto tests from single test terminal.
- 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.

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 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 and 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.



APPLICATION

- 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

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

EMC

- EN 61326-1

TECHNICAL SPECIFICATION

Function	Measuring range	Resolution	Accuracy
HVAC, Programmable HVAC			
Test voltage (AC)	0 ... 1999 V 2.00 ... 5.99 kV	1 V 10 V	± (3 % of reading) ± (3 % of reading)
Test current apparent capacitive resistive	0.0 ... 99.9 mA 0.0 mA ... 99.9 mA -99.9 mA ... 99.9 mA	0.1 mA 0.1 mA 0.1 mA	± (3 % of reading + 3 digits) Indicative Indicative
Short circuit current	> 200 mA		
Output power	500 VAmax		
HVDC, Programmable HVDC			
Test voltage (DC)	0 ÷ 1999 V 2.00 ÷ 6.99 kV	1 V 10 V	± (3 % of reading) ± (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, 10A, 25A)			
R	0.00 Ω ÷ 19.99 Ω 20.0 Ω ÷ 99.9 Ω 100.0 Ω ÷ 199.9 Ω 200 Ω ÷ 999 Ω	0.01Ω 0.1Ω 0.1Ω 1Ω	± (2 % of reading + 2 D) ± 3 % of reading ± 5 % of reading Indicative
Insulation resistance (250 V, 500 V, 1000 V), Insulation resistance - S (250 V, 500 V, 1000 V)			
Riso/Riso-s	0.00 M Ω ÷ 19.99 M Ω 20.0 M Ω ÷ 199.9 M Ω	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)
Insulation resistance (50 V, 100 V), Insulation resistance - S (50 V, 100 V)			
Riso/Riso-s	0.00 M Ω ÷ 19.99 M Ω 20.0 M Ω ÷ 199.9 M Ω	0.01 M Ω 0.1 M Ω	± (5 % of reading + 2 D) ± 20 % of reading
Output voltage	0 V ÷ 1200 V	1 V	±(3 % of reading + 2 D)
(open circuit voltage <50 V a.c.)			
Isub / Isub s	0.00 mA ÷ 19.99 mA	10 μA	± (5 % of reading + 3 D)
Differential Leakage current			
Idiff	0.00 mA ÷ 19.99 mA	0.01 mA	± (3 % of reading + 5 D)
PE leakage current			
Ipe	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			
P	0 W ÷ 999 W 1.00 kW ÷ 3.70 kW	1 W 10 W	± (5 % of reading + 5 D) ± 5 % of reading
S	0 VA ÷ 999 VA 1.00 kVA ÷ 3.70 kVA	1 VA 10 VA	± (5 % of reading + 5 D) ± 5 % of reading
Q	±(0 ÷ 999) VAr ±(1.00 ÷ 3.70) kVAr	1 VAr 10 VAr	± (5 % of reading + 5 D) ± (5 % of reading + 5 D)
PF	0.00i ÷ 1.00i 0.00c ÷ 1.00c	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)
Cos Phi	0.00i ÷ 1.00i 0.00c ÷ 1.00c	0.01	±(5 % of reading + 5 D) ±(5 % of reading + 5 D)
U	0.1V ÷ 199.9 V 200 V ÷ 264 V	0.1 1 V	±(3 % of reading + 10 D) ±(3 % of reading)
I	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)		
Protection class	I		
HV output	5 kV a.c. / 6 kV d.c., double insulation		
COM port	4 x RS232, 1 x USB, 1 x Ethernet, 1 x Bluetooth		
Dimensions (wxhxd):	43,5 cm x 29,2 cm x 15,5 cm		
Weight:	17 kg		

ORDERING INFORMATION



Standard set MI 3394

- Instrument MI 3394 CE MultiTesterXA
- HV test pistol with 2 m cable, 2 pcs
- Continuity test lead, 2.5 m, 2 pcs
- Continuity test lead, red, 1.5 m
- Insulation test lead, red, 2.5 m
- Insulation test lead, black, 2.5 m
- Crocodile clip, black, 2 pcs
- Crocodile clip, red, 3 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.	Acc. description
	A 1017	EXT/DOOR IN cable
	A 1060	Two way mains adapter
	S 1058	CONTINUITY test lead, 10 m, 2 pcs
	S 1072	CONTINUITY test lead with 2 pole alligator clip, 2.5 m, set of 2 pcs
	A 1458	SanDisk MicroSD card reader
	A 1460	CE adapter supports Auto tests
	A 1495	Remote control pedal
	A 1496	Warning lamp / 2 LED's signal tower with buzzer
	A 1497	Warning lamp / 4 LED's signal tower with buzzer

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