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



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, cosφ, frequency, ThdU, ThdI,PF).

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.

- 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 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.

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

TECHNICAL SPECIFICATIO	IN		
Function HVAC, Programmable HVAC	Measuring range	Resolution	Accuracy
Test voltage (AC)	0 1999 V	1 V	± (3 % of reading)
5	2.00 5.99 kV	10 V	± (3 % of reading)
Test current apparent capacitive	0.0 99.9 mA	0.1 mA	± (3 % of reading + 3
resistive	0.0 mA 99.9 mA	0.1 mA	digits)
	-99.9 mA 99.9 mA	0.1 mA	Indicative
Short circuit current	> 200 mA		Indicative
Output power	500 VAmax		
HVDC, Programmable HVDC			
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, 10A, 25A)			
R	$0.00~\Omega \div 19.99~\Omega$	0.01Ω	± (2 % of reading + 2 D)
	$20.0 \Omega \div 99.9 \Omega$	0.1Ω	± 3 % of reading
	100.0 Ω ÷ 199.9 Ω	0.1Ω	± 5 % of reading
	200 Ω ÷ 999 Ω	1Ω	Indicative
Insulation resistance (250 V, 500 V, 1	1000 V), Insulation resistanc	e – S (250 V, 500 V, 1000 V)	
Riso/Riso-s	$0.00~\text{M}~\Omega \div 19.99~\text{M}~\Omega$	0.01 M Ω	± (3 % of reading + 2 D)
	20.0 M Ω ÷ 199.9 M Ω	0.1 Μ Ω	± 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	0.01 M Ω	± (5 % of reading + 2 D)
	20.0 M Ω ÷ 199.9 M Ω	0.1 Μ Ω	± 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 μΑ	± (5 % of reading + 3 D)
Differential Leakage current			(
-	0.00 4 10.00 4	0.01 1	. /2.0/
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			(
	0.144 0.00.144	4.107	. /= 0/
Р	0 W ÷ 999 W	1 W	± (5 % of reading + 5 D) ± 5 % of reading
S	1.00 kW ÷ 3.70 kW 0 VA ÷ 999 VA	10 W 1 VA	± 5 % of reading ± (5 % of reading + 5 D)
J	1.00 kVA ÷ 3.70 kVA	10 VA	± (5 % of reading + 5 D)
0	±(0 ÷ 999) VAr	1 VAr	± (5 % of reading + 5 D)
	±(1.00 ÷ 3.70) kVAr	10 VAr	_ (= = = =
PF	0.00i ÷ 1.00i	0.01	± (5 % of reading + 5 D)
	0.00c ÷ 1.00c	0.01	± (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	0.01	±(5 % of reading + 5 D)
203	0.00c ÷ 1.00c	0.01	±(5 % of reading + 5 D)
U	0.1 V ÷ 199.9 V	0.1	±(3 % of reading + 10 D)
	200 V ÷ 264 V	1 V	±(3 % of reading)
1	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	1		
HV output	5 kV a.c. / 6 kV d.c., double insulation		
COM port	4 x RS232, 1 x USB, 1 x Bluetooth		
Dimensions (w×h×d):	43,5 cm x 29,2 cm x 15,5 cm		
Weight:	17 kg		
**C1511C.	·/ N5		

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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 certificateRS232 cable
- USB cable
- CD with instruction manual (full version)
- PC SW Metrel ES Manager

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. decription
40%	A 1017	EXT/DOOR IN cable
4	A 1060	Two way mains adapter
	S 1058	CONTINUITY test lead, 10 m, 2 pcs
Sh	S 1072	CONTINUTY test lead with 2 pole aligator clip, 2.5 m, set of 2 pcs
11800 erion	A 1458	SanDisk MicroSD card reader
	A 1460	CE adapter sup- ports Auto tests
O I Indiana	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
	P 1101	Licence key for advanced Metrel ES Manager

