

MI 2094 CE Multitester



2 years
warranty

NEW
230 and 115 V
power supply

**Portable
appliances,
switchgears and
machine safety testing**



The MI 2094 CE MultiTester is intended for electrical safety testing and CE certification of electrical appliances, machines and switchboards during the production. It is suitable for testing the appliances after repairs and maintenance work as well. With the ability to test a multitude of different appliances the MI 2094 still remains portable, safe and easy to use. The optional PC software CE Link enables the upload of automated test sequences, downloading of test results directly 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 MultiTester is the perfect instrument for electrical safety testing in the most demanding environments like laboratories, automated production lines or specialized workshops.

KEY FEATURES:

- **Auto testing:** up to 10 autosequences each composed of up to 50 steps, including pauses and comments, can be created via the optional CE Link software and saved in the memory of the instrument.
- **Portable:** due to lightweight design and rugged carrying case with handle CE MultiTester can be moved between locations.
- **Rack mount:** due to the autotest facility and EXT / DOOR remote control of the instrument CE MultiTester can be integrated into the automated production line for output check of manufactured products.
- **Multi-system testing:** the instrument can be used on TT, TN, IT and 115 V supply systems.
- **Downloadable:** the optional PC SW CE Link enables the upload of test sequences, downloading of test results directly to the PC, automatic data storage into a file and printing of test reports.

MEASURING FUNCTIONS:

- Withstanding programmed voltage.
- Withstanding voltage test.
- High voltage burn-out test.
- Continuity tests.
- Insulation resistance measurement.
- Substitute leakage current.
- Differential leakage current.
- Touch leakage current.
- Discharge time.
- Functional test (power, voltage, current, $\cos \varphi$, frequency).

Portable, multipurpose instrument for measurements in accordance with:

- IEC 60204-1
- Electrical equipment of machines IEC 60335-1
- Household and similar electrical appliances IEC 60439-1
- Switchgear and controlgear assemblies IEC 60598-1
- Luminaires IEC 60745
- Hand-held motor-operated tools IEC 60755
- Residual current operated protected devices IEC 60950
- Safety of information technology equipment IEC 61010-1
- Safety requirements for electrical equipment IEC 61029
- Transportable motor-operated tools IEC 61558-1
- Transformers and power supply units EN 60065
- Audio, video and similar electronic apparatus VDE 701 T1
- Repair and modification inspections VDE 702 T1
- Repeat tests of electrical appliances



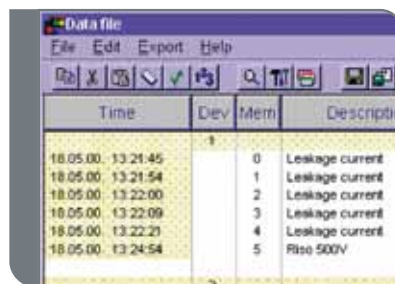
Technical specifications

Function	Measuring range	Resolution	Accuracy
Withstanding test (PROG.HV and HV)			
- Test voltage (AC)	0.100 kV ... 0.999 kV 1.000 kV ... 5.000 kV	0.001 kV 0.001 kV	±(2% of reading + 5 digits) ±(3% of reading + 5 digits)
- Test current	0.0 mA ... 500.0 mA	0.1 mA	±(5% of reading + 5 digits)
PE continuity			
- Test current 10 A and 25 A	0.000 Ω ... 0.999 Ω 1.000 Ω ... 2.000 Ω 2.001 Ω ... 9.999 Ω	0.001 Ω 0.001 Ω 0.001 Ω	±(3% of reading + 3 digits) ±(3% of reading + 10 digits) indicative
- Test current 100 mA	0.00 Ω ... 9.99 Ω 10.0 Ω ... 100.0 Ω	0.01 Ω 0.1 Ω	±(5% of reading + 12 digits) ±(5% of reading + 6 digits)
- Test current 200 mA	0.00 Ω ... 9.99 Ω 10.0 Ω ... 100.0 Ω	0.01 Ω 0.1 Ω	±(5% of reading + 6 digits) ±(5% of reading + 6 digits)
Insulation resistance			
	0.000 MΩ ... 1.999 MΩ 2.000 MΩ ... 199.9 MΩ	0.001 MΩ 0.001 MΩ, 0.01 MΩ, 0.1 MΩ	±(5% of reading + 10 digits) ±(3% of reading + 3 digits)
	200 MΩ ... 999 MΩ	1 MΩ	±(10% of reading + 10 digits)
Differential leakage current	0.00 mA ... 3.99 mA 4.0 mA ... 20.0 mA	0.01 mA 0.1 mA	±(5% of reading + 3 digits) ±(5% of reading + 3 digits)
Substitute leakage current	0.00 mA ... 20.00 mA	0.01 mA	±(5% of reading + 3 digits)
Touch leakage current	0.00 mA ... 2.00 mA	0.01 mA	±(5% of reading + 3 digits)
Functional test			
- Active and apparent power (W or VA)	0.0 ... 199.9 200 ... 3500	0.1 1	±(5% of reading + 10 digits) ±(5% of reading + 3 digits)
- Voltage	0 V ... 400 V	1 V	±(2% of reading + 2 digits)
- Test current	0.000 A ... 0.999 A 1.00 A ... 15.99 A	0.001 A 0.01 A	±(3% of reading + 5 digits) ±(5% of reading + 5 digits)
- cos φ	0.00 ... 1.00	0.01	±(3% of reading + 3 digits)
- Frequency	45.00 Hz ... 65.00 Hz	0.01 Hz	±(0.1% of reading + 3 digits)
- Discharge time	0 s ... 10 s	0.1 s	±(2% of reading + 0.2 s)
Power supply	115 V / 230 V, 50 Hz / 60 Hz		
Overvoltage category	CAT III / 300 V; CAT II / 600 V		
Protection class	I		
COM port	RS232 and USB		
Dimensions	410 x 175 x 370 mm		
Weight	13.5 kg		

Key Features



Inputs/outputs for manual or automatic settings.



PC Software CE Link.

Ordering information

Standard set

MI 2094



- Instrument CE MultiTester
- HV test pistol with 2 m cable, 2 pcs
- Continuity test lead, 2.5 m, 2 pcs
- 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
- Instruction manual
- Calibration certificate

Optional Accessories

Photo	Order No.	Description
	A 0941	Remote control pedal
	A 0942	Warning lamp
	A 1014	Test tip, black
	A 1016	Test tip, red
	A 1017	EXT/DOOR IN cable
	A 1059	ISO-CONTINUITY adapter
	A 1060	Two way mains adapter
	A 1105	Barcode scanner
	A 1073	PC SW CE Link with interface cable
	S 1057	HV test cable with plug, 6 m set of 2 pcs
	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

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



Measuring and Regulation Equipment Manufacturer

METREL d.d.
Ljubljanska 77
SI-1354 Horjul
Tel: + 386 (0)1 75 58 200
Fax: + 386 (0)1 75 49 226
E-mail: metrel@metrel.si
http://www.metrel.si