

CE Multitester



EN/IEC 61010-1
EN 50081-1
Cat II/300 V,
Cat I/600 V,

Programmable measurement sequences (autotest) for all tests as below – supported by PC Software **CE Link**

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

◆ Withstanding voltage test $P_{load} = 500 \text{ VA}$

- Pre-set voltage in steps up to 5000 V AC.
- Pre-set voltage/time test program (t1, t2, t3; U1, U2).
- Timer from 1 s to 10 min.
- Tripping out test current from 1 mA up to 500 mA.
- Burn-out test.

◆ Insulation resistance test

- Test voltage 250 V, 500 V and 1000 V DC.
- Measuring range up to 1 G Ω .
- Programmable limits of resistance.
- Timer from 1s to 10 min.

Leakage current

- Programmable limits from 0.1 ma to 20 mA.
- Timer from 1 s to 10 min.

◆ Continuity test

- Test current 100 mA, 200 mA, 10 A, 25 A voltage <12 V AC.
- Resistance treshold in steps from 100 m Ω to 2 Ω .
- Timer from 1 s up to 20 s.
- Voltage drop/wire section treshold scaled to 10 A AC.

◆ Functional tests

- Power, Apparent power, Cos Φ , Voltage, Current, Frequency.

◆ Discharge time

- External, internal.

◆ Memory and print-out of measurement reports

- 1638 memory locations.
- PC software **CE link** with RS 232 communication cable.

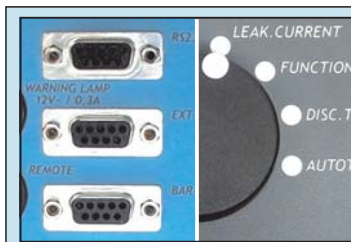
Standard set

Order No. MI 2094



- Instrument CE Multitester
- HV test pistol - 2 m, 2 pcs
- CONTINUITY test lead - 2.5 m, 2 pcs
- INSULATION test lead - 2.5 m, red
- INSULATION test lead - 2.5 m, black
- Crocodile clip, black, 3 pcs
- Crocodile clip, red, 2 pcs
- DISCHARGE TIME cable
- Mains cable
- Accessory bag
- Instruction Manual
- Production verification data
- Declaration of warranty
- Declaration of conformity

Key features



Inputs/outputs for manual or automatic settings

Wide range of simple menus for programming

On-line information about pre-programmed testing procedures

Memorizing of particular testing results

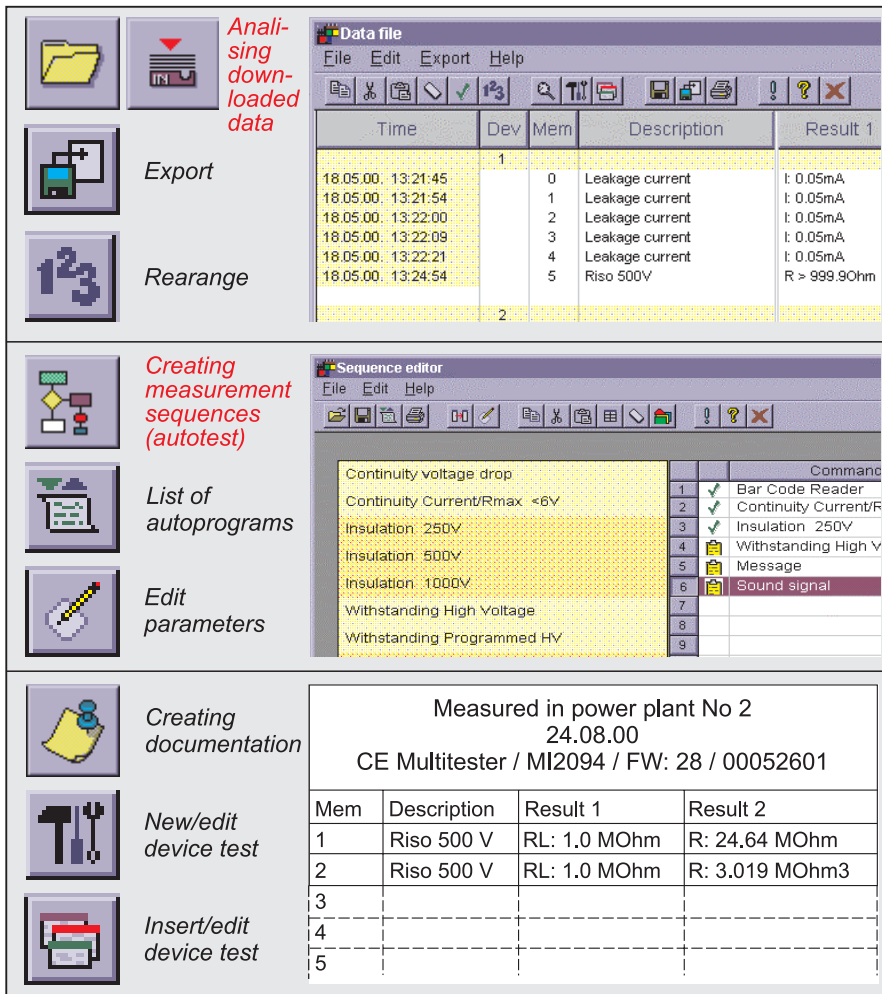
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PROGRAMMED SEQUENCE 2mA
T1: 10s U1:1000V
T2: 10s U2:3700V
T3: 10s U2:
    U1:
    t1 t2 t3
    ++ set selected value
    Exit + + Sel.

AUTOTEST exam1e1
01/15 BAR CODE
02/15 PAUSE
03/15 ISOLAT. (1000)
04/15 MESSAGE
05/15 PROG. HI. VOLT.
06/15 PAUSE
07/15 VOLTAGE DROP
08/15 PAUSE
09/15 VOLTAGE DROP
10/15 MESSAGE
+ next Page Page: 1/2
Exit + +

SAVE TO MEMORY
Device: 010
Barcode: 8798798798798
Memory: 0003
free: 1618 (100%)
Press [MENU] for Save
++ select device
Exit + +
    
```

PC Software "CE Link – Powerfull support tool"



Analyzing down-loaded data

Time	Dev	Mem	Description	Result 1
18.05.00: 13:21:45	1	0	Leakage current	I: 0.05mA
18.05.00: 13:21:54	1	1	Leakage current	I: 0.05mA
18.05.00: 13:22:00	2	2	Leakage current	I: 0.05mA
18.05.00: 13:22:09	3	3	Leakage current	I: 0.05mA
18.05.00: 13:22:21	4	4	Leakage current	I: 0.05mA
18.05.00: 13:24:54	5	5	Riso 500V	R: > 999.90hm

Creating measurement sequences (autotest)

Command	1	2	3	4	5	6	7	8	9
Continuity voltage drop									
Continuity Current/Rmax <6V	1	✓							
Insulation: 250V	2	✓							
Insulation: 500V	3	✓							
Insulation: 1000V	4								
Withstanding High Voltage	5								
Withstanding Programmed HV	6								
	7								
	8								
	9								

**Measured in power plant No 2
24.08.00
CE Multitester / MI2094 / FW: 28 / 00052601**

Mem	Description	Result 1	Result 2
1	Riso 500 V	RL: 1.0 MOhm	R: 24.64 MOhm
2	Riso 500 V	RL: 1.0 MOhm	R: 3.019 MOhm3
3			
4			
5			

Optional Accessories



- HV test calbe with plug - 6m, set of 2 pcs **Order No. S 1057**
- CONTINUITY test lead - 10 m, set of 2 pcs **Order No. S 1058**
- CONTINUITY test lead special - 2.5 m, set of 2 pcs **Order No. S 1072**
- Remote control pedal **Order No. A 0941**
- Warning Test/Ready lamp **Order No. A 0942**
- Bar Code Reader **Order No. A 1061**
- ISO + CONTINUITY adapter **Order No. A 1059**
- Test tip, red **Order No. A 1016**
- Test tip, black **Order No. A 1014**
- Two way mains adapter **Order No. A 1060**
- EXT/DOOR IN cable **Order No. A 1017**
- PC Software CE link with interface cable **Order No. A 1073**

Technical Specifications

Withstanding test 500 VA:	100 V ÷ 1000 V AC ±(2 % + 5 dig.)			
Trip-out current settable limit 0.1 ÷ 500 mA	1000 V ÷ 5000 V AC ±(3 % + 5 dig.)			
Insulation resistance test:	0 ÷ 1.999 MΩ ±(3 % + 3 dig.)			
Test voltage: 250 V, 500 V, 1000 V DC	2 ÷ 19.99 MΩ ±(3 % + 3 dig.)			
Current 1 mA min.	20 ÷ 199.9 MΩ ±(3 % + 3 dig.)			
Programmable resistance limits	200 ÷ 1 GΩ ±(5 % + 3 dig.)			
Continuity test	Test current			
	10 A, 25 A			
	100 mA			
Test voltage <12 V AC	0 ÷ 1 Ω ±(3 % + 3 dig.)			
Programmable resistance limits	1 ÷ 2 Ω ±(3 % + 3 dig.)			
	0 ÷ 9.99 Ω ±(5 % + 12 dig.)			
Voltage drop test 10 A	200 mA			
	100 mA, 200 mA			
	0 ÷ 9.99 Ω ±(5 % + 6 dig.)			
	10 ÷ 100 Ω ±(5 % + 6 dig.)			
Discharge time test (internal, external):	0 ÷ 10 s ±2 %			
Programmable limits				
Timer for tests as above	1 s ÷ 10 min			
Leakage current test	0 ÷ 4 mA, 4 ÷ 20 mA ±(5 % + 3 dig.)			
Programmable limits				
Power,				
Apparent Power	Voltage	Current	Cos φ	Frequency
1 ÷ 200 VA	0 ÷ 400 V	0 ÷ 1 A	0 ÷ 1	45 ÷ 65 Hz
±(5 % + 10 dig.)	±(2 % + 2 dig.)	±(3 % + 3 dig.)	±(3 % + 3 dig.)	±(0,1 % + 3 dig.)
200 ÷ 3500 VA		1 ÷ 16 A		
±(5 % + 3 dig.)		±(5 % + 5 dig.)		

General Characteristics

Case	portable
Power Supply	230 V (45-65 Hz)
Overvoltage category	Cat III/300 V, Cat II/600 V
Pollution degree	2
Degree of protection	IP 50
Protection classification	I
Dimensions (w x h x d)	410 × 175 × 370 mm
Mass (without accessories)	14 kg