

# 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

**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

## ◆ 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 $\Omega$ .
- 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 $\Omega$  to 2  $\Omega$ .
- Timer from 1 s up to 20 s.
- Voltage drop/wire section treshold scaled to 10 A AC.

## ◆ Functional tests

- Power, Apparent power, Cos  $\Phi$ , Voltage, Current, Frequency.

## ◆ Discharge time

- External, internal.

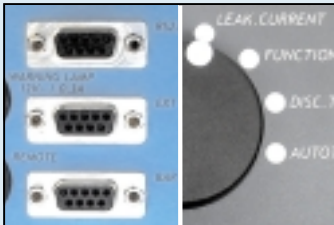
## ◆ Memory and print-out of measurement reports

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

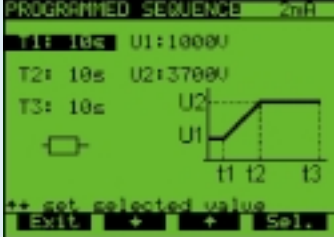


## Key features


## PC Software "CE Link – Powerfull support tool




Inputs/outputs for manual or automatic settings



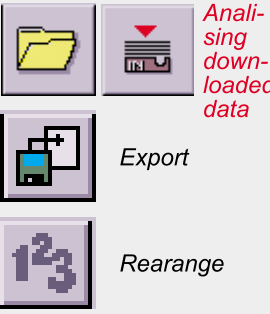
Wide range of simple menus for programming




On-line information about pre-programmed testing procedures




Memorizing of particular testing results




Analysing downloaded data




Export




Rearrange




Creating measurement sequences (autotest)




List of autoprograms




Edit parameters



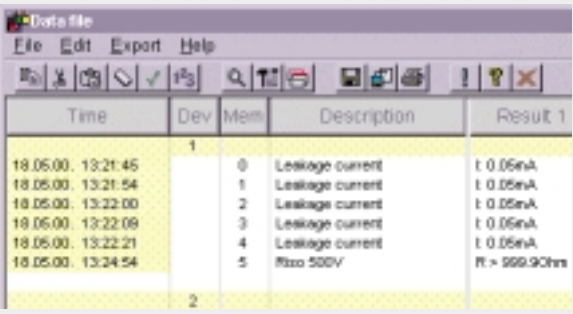
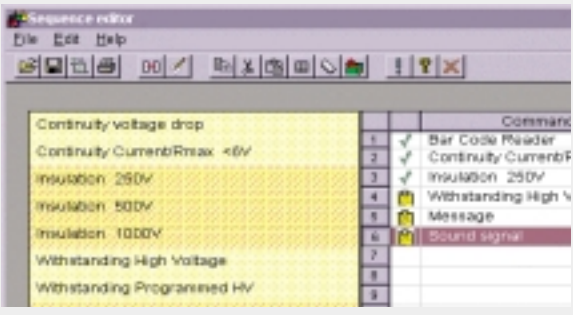
Creating documentation



New/edit device test



Insert/edit device test

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 MOhm
3			
4			
5			

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

## Optional Accessories



- HV test cable with plug
  - 6m, set of 2 pcs
- CONTINUITY test lead
  - 10 m, set of 2 pcs
- CONTINUITY test lead special
  - 2.5 m, set of 2 pcs
- Remote control pedal
- Warning Test/Ready lamp
- Bar Code Reader
- ISO + CONTINUITY adapter
- Test tip, red
- Test tip, black
- Two way mains adapter
- EXT/DOOR IN cable
- PC Software CE link with interface cable

**Order No. S 1057**

**Order No. S 1058**

**Order No. S 1072**

**Order No. A 0941**

**Order No. A 1061**

**Order No. A 1059**

**Order No. A 1016**

**Order No. A 1014**

**Order No. A 1060**

**Order No. A 1017**


**Order No. A 1073**

## Technical Specifications

<b>Withstanding test 500 VA:</b>		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.)					
<b>Insulation resistance test:</b>		0 ÷ 1.999 MΩ ±(3 % + 3 dig.)					
Test voltage: 250 V, 500 V, 10000 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.)					
<b>Continuity test</b>	Test current	0 ÷ 1 Ω ±(3 % + 3 dig.)					
	10 A, 25 A	1 ÷ 2 Ω ±(3 % + 3 dig.)					
	100 mA	0 ÷ 9.99 Ω ±(5 % + 12 dig.)					
Test voltage <12 V AC	Programmable resistance limits	0 ÷ 9.99 Ω ±(5 % + 6 dig.)					
100 mA		10 ÷ 100 Ω ±(5 % + 6 dig.)					
200 mA							
Programmable resistance limits	200 mA						
Voltage drop test 10 A	100 mA, 200 mA						
<b>Discharge time test</b> (internal, external):		0 ÷ 10 s ±2 %					
Programmable limits							
Timer for tests as above		1 s ÷ 10 min					
<b>Leakage current test</b>		0 ÷ 4 mA, 4 ÷ 20 mA ±(5 % + 3 dig.)					
Programmable limits							
Power,	Voltage	Current	Cos φ	Frequency			
Apparent Power							
1 ÷ 200 VA					0 ÷ 400 V	0 ÷ 1 A	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 (+6 - 10 %) / 50 Hz
Overvoltage category	Cat III/300 V, Cat II/600 V
Polution degree	2
Degree of protection	IP 50
Protection classification	I
Dimensions (w x h x d)	410 × 175 × 370 mm
Mass (without accessories)	13.5 kg

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Subject to technical change without notice!

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