

MultiServicer

A complete solution to testing of safety on machines, switchgears, controlgears, and portable electrical appliances

MI 2170 - Machine, Switchgear, PAT Tester

Three testers in one - its your choice

* also available MI 2171 - Machine Tester only

New for Multi Applications

- electrical service engineers
- switchgear / safety engineers
- electrical maintenance engineers



Final test on a portable appliance in a service workshop



Testing of safety in a construction site on a switchgear



Complete testing of safety on machines (at initial installation or on periodic basis)

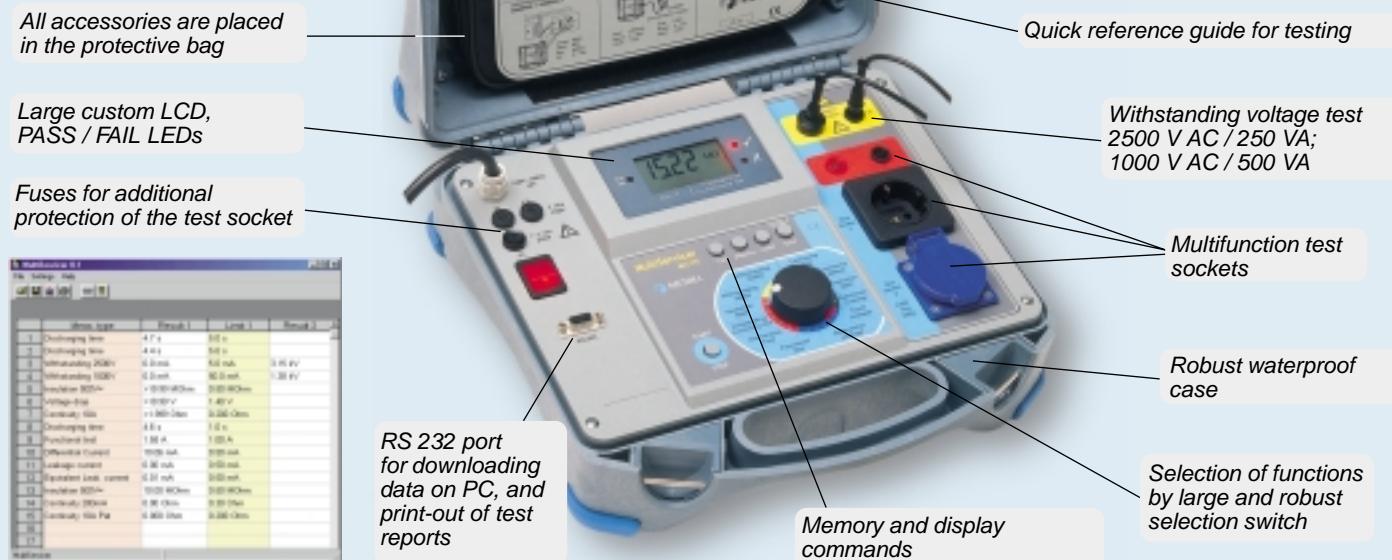
Automatic test: One-man operation by remote probe



Measurements in accordance with:

- | | |
|------------------|--|
| IEC 60204 | Electrical equipment of machines. |
| IEC 60439-1 | Switchgear and controlgear assemblies. |
| IEC 60755 | Residual current operated protected devices. |
| IEC 60598-1 | Luminaires. |
| VDE 701, VDE 702 | Repair and modification inspections and repeat tests of electrical appliances. |
| IEC 50144-1 | Safety of hand-held electric motor operated tools. |

Key Features



Technical specification

Function	Measuring range;	Accuracy	MI 2170	MI 2171
Withstanding voltage test 2500 V AC / 250 VA	0 - 3000 V	$\pm (5\% + 5 \text{ dig.})$	✓	
Trip-out current / time	2, 5, 10, 50, 100 mA	/ <30 ms		
Withstanding voltage test 1000 V AC / 500 VA	0 - 1500 V	$\pm (5\% + 5 \text{ dig.})$	✓	✓
Trip-out current / time	5, 10, 20, 50, 100, 500 mA	/ <30 ms		
Insulation resistance test 500 V DC (Hi and Lo terminal)	0 - 19.99 MΩ	$\pm (5\% + 5 \text{ dig.})$	✓	✓
Test current	min. 1 mA at 500 kΩ			
Primary field of use: testing of machines, switchgears				
Voltage drop test / Continuity test 10 A (*) (Hi and Lo terminal)	0 - 11.99 V 0 - 1.999 Ω	$\pm (5\% + 5 \text{ dig.})$ $\pm (5\% + 5 \text{ dig.})$	✓	✓
Test current	>10 A at R <330 mΩ			
Primary field of use: testing of machines				
Discharge time test 60 V, 120 V (Hi and Lo terminal)	0 - 9.9 s	$\pm (5\% + 3 \text{ dig.})$	✓	✓
Input resistance	48 MΩ			
Voltage measurement	0 - 450 V TRMS	$\pm (2\% + 3 \text{ dig.})$	✓	✓
Functional test	0 - 15.99 A	$\pm (5\% + 3 \text{ dig.})$	✓	✓
Continuity test 10 A (*) (on shuko plug)	0 - 1.999 Ω		✓	
Test current	>10 A at R <330 mΩ			
Primary field of use: testing of appliances				
Continuity test 200 mA	0 - 19.99 Ω >200 mA	$\pm (5\% + 5 \text{ dig.})$	✓	
Test current				
Insulation resistance test 500 V DC (on shuko plug)	0 - 19.99 MΩ	$\pm (5\% + 5 \text{ dig.})$	✓	
Test current	min. 1 mA at 500 kΩ			
Primary field of use: testing of appliances				
Substitute Leakage	0 - 19.99 mA	$\pm (5\% + 5 \text{ dig.})$	✓	
Open circuit voltage	40 V			
Touch Leakage Current	0 - 1.99 mA	$\pm (5\% + 5 \text{ dig.})$	✓	
Probe resistance	1.8 kΩ			
Differential Leakage Current	0 - 19.99 mA	$\pm (5\% + 5 \text{ dig.})$	✓	✓

(*) Automatic test

General specification

Power supply	230 V AC (optional 110 V)
Memories	50 locations
Degree of protection (closed case)	IP 44
Protection classification	I
Pollution category	2
Overvoltage category	Cat III 300 V
Compensation of test leads	yes
Dimensions (w x h x l)	345 x 160 x 335 mm
Weight (without accessories)	9.5 kg

Standard set

Order No. MI 2170, MI 2171



- Instrument
- HV test lead
- Test lead (black), 2 m
- Test lead (red), 2 m
- Test tip (black)
- Test tip (red)
- Crocodile clip (black)
- Crocodile clip (red)
- PC SW Multi Link with RS 232 cable
- Protective bag for accessories
- Instruction manual
- Production verification data
- Declaration of conformity

Optional accessories



- A 1095 A 1096 S 2012
- INS / SUB adapter (for connection of CLASS II equipment)
- Adapter for hard connection (for all hard wired equipment)
- Continuity extension - 10 m, set of 2 pcs

Order No:
A 1095

A 1096
S 2012

Distributor: