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The simplest method of professional measurements

Features

Measurement of short circuit loop parameters

- Measurement of short circuit loop impedance in networks with rated voltage: 220/380 V, 230/400 V, 240/415 V and frequency 45...65 Hz, operating voltage range: 180...460 V
- Indication of short circuit loop resistance R and short circuit loop reactance X
- Measurements of short circuit loop impedance with 15 mA current, without tripping the RCD circuit breaker
- Maximum test current: 7.6 A (at 230 V), 13.3 A (at 400 V)

Testing RCD breakers of AC, A types

- Testing of prompt, short-delay and selective RCDs with rated current values 10, 15, 30, 100, 300, 500 mA
- Measurement of I, trip current and tripping time t, for currents $0.5 I_{\Lambda n}$, $1 I_{\Lambda n}$, $2 I_{\Lambda n}$, $5 I_{\Lambda n}$
- $R_{\scriptscriptstyle E}$ and $U_{\scriptscriptstyle B}$ measurement without RCD tripping
- Extended AUTO function of RCD measurement, with the possibility of measuring $Z_{\text{L-PE}}$ with low current • Measurement of I_{A} and t_{A} during one RCD tripping

Measurement of resistance of protective conductors and equipotential bondings

- Measurement of protective connections continuity with a ±200 mA current in accordance with EN 61557-4
- Autocalibration of test leads any leads can be used
- · Low current resistance measurement with sound signaling



Additional functions

- Checking the correctness of PE connection using a contact electrode
- Measurement of voltage (0 ... 500 V) and network frequency
- Memory of 990 results
- Wireless data transmission to a computer
- Backlit keypad

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Simplicity included in the price

Features of MPI-502 are focused on ergonomics and maximally simplified user experience. The functions are selected with a rotary switch. Additional parameters are set with buttons located on the housing face. The settings are saved by the device even when the battery is completely discharged.

All buttons and the modular display have backlight, which significantly improves operation in low light. Large memory eliminates the need for taking notes during the measurements.

Inspection of electrical safety

This device may be used to **inspect safety of electrical systems in households and industrial facilities**. Measurements can be easily automated with:

- auto mode of residual current devices (RCD) tests,
- the WS adapter that can be used for testing systems via standard 230 V sockets.



Increased resistance to environmental conditions

The meter will cope well in difficult environmental conditions. Protection against penetration of dust and water is ensured by a unique housing with a level of protection IP67.

Communication and software

You can easily transfer measurement data to your computer via Bluetooth wireless communication. In order to generate a report on measurements for electric shock protection, use **Sonel Reports PLUS** software. Saving the downloaded data to the simplest formats and printing is provided by free **Sonel Reader** software.



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Measurement functions	Measurement range	Display range	Resolution	Accuracy ±(% m.v. + digits)
Fault loop impedance				
Fault loop $Z_{L-PE'}$, $Z_{L-N'}$, Z_{L-L}	0.13 Ω1999 Ω acc. to IEC 61557	0.00 Ω1999 Ω	from 0.01 Ω	±(5% m.v. + 3 digits)
Fault loop Z _{L-PE} in RCD mode	from 0.5 Ω1999 Ω acc. to IEC 61557	0.00 Ω1999 Ω	from 0.01 Ω	from ±(6% m.v. + 5 digits
Measurements of RCD parameters				
RCD tripping test and measurement of tripp measuring current 0.5 $I_{\Delta n'}$ 1 $I_{\Delta n'}$ 2 $I_{\Delta n'}$ 5 $I_{\Delta n}$	ing time t _A			
general and short-time delay RCD	0 ms300 ms	0 ms300 ms	1 ms	±(2% m.v. + 2 digits)
selective RCD	0 ms500 ms	0 ms500 ms	1 ms	±(2% m.v. + 2 digits)
Measurement of RCD tripping current I $_{\rm A}$ measuring current 0.3 I $_{\rm \Delta n}$ 2.0 I $_{\rm \Delta n}$				
for sinusoidal residual current (AC type)	3.0 mA500 mA	3.0 mA500 mA	from 0.1 mA	±5% I _{∆n}
for unidirectional residual current and unidirectional with the 6 mA DC bias (type A)	4.0 mA420 mA	4.0 mA420 mA	from 0.1 mA	±10% I _{Δn}
Measurement of resistance of protective conductors and equipotential bondings with ±200 mA current	0.12 Ω400 Ω acc. to IEC 61557-4	0.00 Ω400 Ω	from 0.01 Ω	±(2% m.v. + 3 digits)
Measurement of resistance with low current	0.0 Ω1999 Ω	0.0 Ω1999 Ω	from 0.1 Ω	±(3% m.v. + 3 digits)
- 1 : 11.				
Safety and operating conditions		IV 3	00 V, III 600 V	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection		IV 3	00 V, III 600 V	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection	C 61557	IV 3		
Safety and operating conditions Measuring category acc. to EN 61010	C 61557		IP67	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE	C 61557	220	IP67 double	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE Dimensions	C 61557	220	IP67 double x 98 x 58 mm	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE Dimensions Weight	C 61557	220	IP67 double x 98 x 58 mm	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE Dimensions Weight Memory and communication	C 61557	220 990 cell	IP67 double x 98 x 58 mm ca. 0.6 kg	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE Dimensions Weight Memory and communication Memory Data transmission	C 61557	220 990 cell	IP67 double x 98 x 58 mm ca. 0.6 kg s, 10 000 records	
Safety and operating conditions Measuring category acc. to EN 61010 Ingress protection Type of insulation acc. to EN 61010-1 and IE Dimensions Weight Memory and communication Memory		990 cell	IP67 double x 98 x 58 mm ca. 0.6 kg s, 10 000 records	

Standard accessories



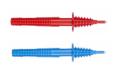
WS-05 adapter (UNI-SCHUKO angular plug)

WAADAWS05



Test lead 1.2 m (banana plugs) red / blue / yellow

WAPRZ1X2REBB WAPRZ1X2BUBB WAPRZ1X2YEBB



Pin probe 1 kV (banana socket) red / blue

WASONREOGB1 WASONBUOGB1



Crocodile clip 1 kV 20 A yellow

WAKROYE20K02



M1 hanging straps

WAPOZSZE4



M1 hanging hook straps

WAPOZUCH1



M6 carrying case

WAFUTM6



4x LR6 1.5 V battery



Calibration certificate

Optional accessories



EVSE-01 adapter for testing vehicle charging stations

WAADAEVSE01



TWR-1J RCD breaker testing adapter

WAADATWR1J



WS-01 adapter with START button (UNI-Schuko plug)

WAADAWS01



Pin probe 1 kV (banana socket) yellow

WASONYEOGB1



Foldable pin probe, 1 kV, 2 m (banana socket)

WASONSP2M



Crocodile clip 1 kV 20 A red / blue

WAKRORE20K02 WAKROBU20K02



Test lead for fault loop measurement (banana plugs) 5 m / 10 m / 20 m

WAPRZ005REBB WAPRZ010REBB WAPRZ020REBB





Industrial socket adapter 16 A / 32 A

WAADAAGT16T WAADAAGT32T





Three-phase socket adapter 16 A / 32 A

WAADAAGT16C WAADAAGT32C



Three-phase socket adapter 16 A / 32 A

WAADAAGT16P WAADAAGT32P





Three-phase socket adapter 63 A

WAADAAGT63P



Calibration certificate with accreditation

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