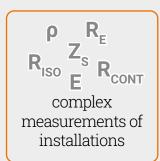


MPI-535
index: WMUSMPI535

















Maximum functionality in a minimum price

- The largest touch screen on the market (7") remarkable ergonomics and ease of use
- Removable microSD memory card easy increase of memory capacity
- Li-lon battery longer operation of the meter
- Measurement of all parameters related to earthing and protection against electric shock one device instead of several
- Quick measurement of the fault loop impedance in networks secured with RCD without triggering (up to several seconds) – time saver
- Auto measurements the ability to perform automatic measurements in sequence simplified measurements
- Fast path from measurements to report time saver

Features

The meter offers **a wide range** of functionalities. It combines the measuring capabilities of several devices, while ensuring equally good accuracy.

MPI-535 can be used for all measurements for commissioning of electrical installations in accordance with applicable regulations:

- » short circuit loop impedance (also in circuits secured with RCDs),
- » RCD parameters,
- » insulation resistance,
- » earth resistance (4 measurement methods + soil resistivity measurement),
- » continuity of protective and equipotential bondings,
- » light intensity measurement,
- » phase sequence test,
- » motor rotation direction test.

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Automatic installation safety test

MPI-535 allows safety control of **residential, commercial and industrial electrical installations**. Measurements can be easily automated with:

- auto mode of residual current devices (RCD) tests,
- auto measurements freely configurable measuring sequences,
- AutoISO-1000C adapter for automatic insulation resistance test of 3-, 4and 5-conductor cables, without switching.

Ease of reading

The device is equipped with a color TFT LCD touch screen with a resolution of 800x480 pixels and a diagonal of 7", which allows for convenient operation and easy reading of parameters and plotted waveforms. This screen size enables displaying more information, available at any time of use. The interface is visible in all conditions – also thanks to the appropriate size of displayed symbols. Included stylus allows to work also with dielectric gloves.



Built-in help system

The device has built-in help screens with measurement diagrams. Thanks to this you can easily and quickly check and make sure how to connect to a given system depending on the type of performed measurement.

Increased resistance to environmental conditions

The MPI-535 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 IP51. It is resistant to mechanical damage, and a special design allows you to easily protect the touch screen by shielding using the cover of the meter. In addition to the fact that it protects against damage, it also allows you to conveniently carry and use the device in different positions.

Communication and software

A very strong feature of the device is the multitude of communication interfaces and cooperation with external software. You can easily transfer measurement data to your computer via USB port, removable SD memory card, or wireless communication (Bluetooth, Wi-Fi).

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)
ault loop impedance				
Fault loop Z _{L-PE} , Z _{L-N} , Z _{L-L}	0.13 Ω1999.9 Ω acc. to IEC 61557	0.000 Ω1999.9 Ω	from 0.001 Ω	±(5% m.v. + 30 digits)
Fault loop Z _{L-PE} in RCD mode	from 0.50 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 tripping 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	from ±(2% m.v. + 2 digits)
selective RCD	0 ms500 ms	0 ms500 ms	1 ms	from ±(2% m.v. + 2 digits)
Measurement of RCD tripping current I_A measuring current 0.2 $I_{\Delta n}$ 2.0 $I_{\Delta n}$				
for sinusoidal residual current (AC type)	3.3 mA1000 mA	3.3 mA1000 mA	from 0.1 mA	±5% I _{Δn}
for unidirectional residual current and unidirectional with the 6 mA DC bias (type A)	3.5 mA700 mA	3.5 mA700 mA	from 0.1 mA	±10% I _{∆n}
for direct residual current (type B)	2.0 mA1000 mA	2.0 mA1000 mA	from 0.1 mA	±10% I _{∆n}
Earth resistance				
3- and 4-pole method	from 0.50 Ω1.99 kΩ acc. to IEC 61557-5	0.00 Ω1.99 kΩ	from 0.01 Ω	from ±(2% m.v. + 3 digits
3-pole + clamp method	0.00 Ω1.99 kΩ	0.00 Ω1.99 kΩ	from 0.01 Ω	from ±(2% m.v. + 4 digits
2-clamp method	0.00 Ω99.9 kΩ	0.00 Ω99.9 kΩ	from 0.01 Ω	from ±(10% m.v. + 4 digits
Resistance-to-earth	0.0 Ωm99.9 kΩm	0.0 Ωm99.9 kΩm	from 0.1 Ωm	Depending on accuracy of R _E measurement
nsulation resistance				
Measuring voltage 50 V	50 kΩ250 MΩ acc. to IEC 61557-2	0 kΩ250 MΩ	from 1 kΩ	from ±(3% m.v. + 8 digits
Measuring voltage 100 V	100 kΩ500 MΩ acc. to IEC 61557-2	0 kΩ500 MΩ	from 1 kΩ	from ±(3% m.v. + 8 digits
Measuring voltage 250 V	250 kΩ999 MΩ acc. to IEC 61557-2	0 kΩ999 MΩ	from 1 kΩ	from ±(3% m.v. + 8 digits
Measuring voltage 500 V	500 kΩ2.00 GΩ acc. to IEC 61557-2	0 kΩ2.00 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits
Measuring voltage 1000 V	1000 kΩ4.99 GΩ acc. to IEC 61557-2	0 kΩ9.99 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits
Resistance of protective conductors and equ	ipotential bondings			
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)
ight intensity				
Measurement in luxes (lx)	0 lx399.9 klx	0 lx399.9 klx	from 0.001 lx	from ±(2% m.v. + 5 digits
Measurement in feet-candles (fc)	0 fc39.99 kfc	0 fc39.99 kfc	from 0.001 fc	from ±(2% m.v. + 5 digits

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Other technical data

Safety and work conditions

Measuring category according to EN 61010	IV 300 V, III 500 V		
Ingress protection	IP51		
Type of insulation according to EN 61010-1 and IEC 61557	double		
Dimensions	288 x 223 x 75 mm 11.3" x 8.8" x 3.0"		
Weight	ca. 2.5 kg 5.5 lbs		
Operating temperature	0+45°C 32113°F		
Storage temperature	-20+60°C -4140°F		
Humidity	2090%		
Nominal temperature	23 ± 2°C		
Reference humidity	40%60%		
Memory and communication			
Memory of measurement results	unlimited		
Data transmission	USB 2.0		
Other information			
Quality standard – development, design and production	ISO 9001		
The product meets the EMC (emission for industrial environment)	EN 61326-1		
requirements according to standards	EN 61326-2-2		

Standard accessories



Test lead 1,2 m (banana plugs) red / blue / yellow

WAPRZ1X2REBB WAPRZ1X2BUBB WAPRZ1X2YEBB



Crocodile clip 1 kV 20 A red / blue / yellow

WAKRORE20K02 WAKROBU20K02 WAKROYE20K02



Pin probe 1 kV (banana socket) red / blue / yellow

WASONREOGB1 WASONBUOGB1 WASONYEOGB1



Test lead on a reel 15 m

WAPRZ015BUBBSZ



Test lead on a reel 30 m

WAPRZ030REBBSZ



2x earth contact test probe (rod), 30 cm

WASONG30



Charging

Z-7 power supply + 125 V mains cable WAZASZ7US



Li-lon battery 11.1 V 3.4 Ah WAAKU15



USB cable

WAPRZUSB



L-2 hanging straps (set)

WAPOZSZEKPL



L-2 carrying case

WAFUTL2



Factory calibration certificate

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Optional accessories



EVSE-01 adapter for testing vehicle charging stations

WAADAEVSE01



AutoISO-1000C adapter

WAADAAISO10C



WS-03 adapter with START button with UNI-Schuko plug WAADAWS03US

WS-04 adapter with UNI-SCHUKO angular plug WAADAWS04US



C-3 clamp (Ø 52 mm)

WACEGC30KR



N-1 transmitting clamp (Ø 52 mm)

WACEGN1BB



TWR-1J RCD breaker testing adapter

WAADATWR1J



PRS-1 resistance test probe

WASONPRS1



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

WASONSP2M



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

WAPRZ005REBB WAPRZ010REBB WAPRZ020REBB



Test wire reel

WAPOZSZP1



Test lead for earth resistance measurement 25 m

WAPRZ025BUBBSZ



Test lead for earth resistance measurement 50 m

WAPRZ050YEBBSZ



Cramp with banana socket

WAZACIMA1



Earth contact test probe 80 cm

WASONG80V2



L-3 carrying case (for 80 cm test probes)

WAFUTL3



Cable for battery charging from car cigarette lighter socket (12 V)

WAPRZLAD12SAM



CS-1 cable simulator

WAADACS1



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



LP-10A light meter probe with WS-06 plug

set WAADALP10AKPL

only probe with miniDIN-4P plug WAADALP10A

only WS-06 adapter with miniDIN-4P socket WAADAWS06



LP-10B light meter probe with WS-06 plug

set WAADALP10BKPL

only probe with miniDIN-4P plug WAADALP10B

only WS-06 adapter with miniDIN-4P socket WAADAWS06



LP-1 light meter probe with WS-06 plug

set WAADALP1KPL

only probe with miniDIN-4P plug WAADALP1

only WS-06 adapter with miniDIN-4P socket WAADAWS06



4 GB microSD card

Touchscreen pen WAPOZTPEN



Sonel Reports PLUS software

WAPROREPORTSPLUS



Calibration certificate with accreditation

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