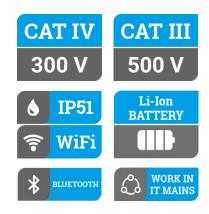


Multi-function meter of electrical system parameters



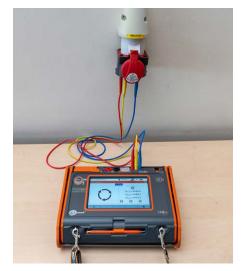






Insulation resistance specialist

- Measurement of insulation resistance using test voltage of 2.5 kV
- Visualization of R_{ISO} in the form of graphs: R(t)/U(t), R(t)/I(t), U(t)/I(t), I(U)
- Absorption coefficients PI, DAR, AB1, AB2 and temperature coefficients k20, k40
- The largest touch screen on the market (7") remarkable ergonomics and ease of use
- Removable microSD memory card easy increase of memory capacity
- Li-Ion 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-536 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.

Insulation control with a voltage of 2.5 kV

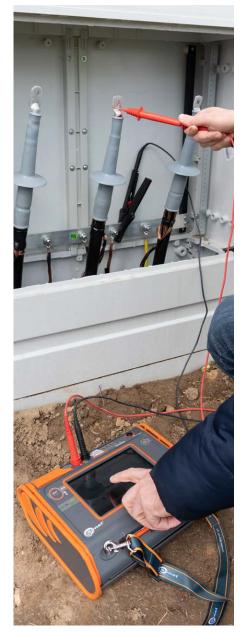
In the field of insulation resistance control, MPI-536 has very wide possibilities - its maximum measurement voltage is as much as **2500 V**. The insulation diagnostics is supported by the graphs R (t)/U(t), R(t)/I(t), U(t)/I(t), I(U), available both after and during the measurement. In addition, the instrument calculates the absorption coefficients PI, DAR, AB1, AB2 and the temperature coefficients k20, k40.

Automatic installation safety test

MPI-536 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-2500 adapter for automatic insulation resistance test of 3-, 4- and 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-536 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.



Specifications

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 Ω1999.9 Ω	0.000 Ω1999.9 Ω	from 0.001 Ω	±(5% m.v. + 30 digits)
	acc. to IEC 61557 from 0.50 Ω1999 Ω	0.00 Ω1999 Ω	from 0.01 Ω	from ±(6% m.v. + 5 digits)
Fault loop Z_{L-PE} in RCD mode	acc. to IEC 61557	0.00 Ω1999 Ω		
leasurements of RCD parameters				
RCD tripping test and measurement of trippi measuring current $0.5 I_{\Delta n'} 1 I_{\Delta n'} 2 I_{\Delta n'} 5 I_{\Delta n}$	ng 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	$\pm 5\% I_{\Delta n}$
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	$\pm 10\%$ I _{Δn}
for direct residual current (type B)	2.0 mA1000 mA	2.0 mA1000 mA	from 0.1 mA	$\pm 10\%$ I _{Δn}
arth 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 10 V	10 kΩ9.99 MΩ acc. to IEC 61557-2	0 kΩ9.99 MΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
Measuring voltage 50 V	50 kΩ250 MΩ	0 kΩ250 MΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
	acc. to IEC 61557-2 100 kΩ500 MΩ			
Measuring voltage 100 V	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	0 kΩ2.00 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
	acc. to IEC 61557-2 1000 kΩ3.00 GΩ			
Measuring voltage 1000 V	acc. to IEC 61557-2	0 kΩ3.00 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
Measuring voltage 1500 V	1500 kΩ5.00 GΩ acc. to IEC 61557-2	0 kΩ5.00 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
Measuring voltage 2500 V	2500 kΩ9.99 GΩ acc. to IEC 61557-2	0 kΩ9.99 GΩ	from 1 kΩ	from ±(3% m.v. + 8 digits)
Resistance of protective conductors and equi	potential 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)

Other technical data

Safety and work conditions

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		
Weight	ca. 2.5 kg		
Operating temperature	0+45°C		
Storage temperature	-20+60°C		
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 WAPRZ1X2REBB WAPRZ1X2BUBB WAPRZ1X2YEBB



Test lead 5 kV 1.8 m (banana plugs) red / black shielded

WAPRZ1X8REBB WAPRZ1X8BLBB



Test lead on a reel 15 m / 30 m

WAPRZ015BUBBSZ WAPRZ030REBBSZ



USB cable WAPRZUSB





Crocodile clip 1 kV 20 A red / blue / yellow WAKRORE20K02 WAKROBU20K02

WAKROYE20K02

WS-03 adapter with START button with UNI-Schuko plug WAADAWS03

2x earth contact test probe (rod), 30 cm WASONG30

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

WASONREOGB1 WASONBUOGB1 WASONYEOGB1

Crocodile clip 11 kV 32 A black WAKROBL32K09

Pin probe 5 kV (banana socket) red WASONREOGB2

Charging Mains cable with IEC C7 plug WAPRZLAD230

Z7 power supply WAZASZ7

L2 hanging straps (set)

WAPOZSZEKPL

L2 carrying case WAFUTL2



Li-lon battery 11.1 V 3.4 Ah WAAKU15

Factory calibration certificate

Optional accessories



EVSE-01 adapter for testing vehicle charging stations WAADAEVSE01



AutoISO-2500 adapter

WAADAAISO25



WS-04 adapter with UNI-SCHUKO angular plug

WAADAWS04



C-3 clamp (Ø 52 mm) WACEGC30KR



N-1 transmitting clamp (Ø 52 mm) WACEGN1BB

RCD breaker testing adapter WAADATWR1J

TWR-1J



Test wire reel

WAPOZSZP1

Cramp with

WAZACIMA1

WAADACS1

banana socket



Foldable pin probe, 1 kV, 2 m (banana socket) WASONSP2M

Test lead for earth resistance measurement 25 m

WAPRZ025BUBBSZ

Earth contact test probe 80 cm WASONG80V2

CS-5kV calibration box WAADACS5KV

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

WAPRZ005REBB WAPRZ010REBB WAPRZ020REBB

Test lead for earth resistance measurement 50 m

WAPRZ050YEBBSZ

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

WAFUTL3

Industrial socket adapter 16 A / 32 A

WAADAAGT16T WAADAAGT32T



Three-phase socket adapter 16 A / 32 A WAADAAGT16C WAADAAGT32C

CS-1 cable simulator





only probe with miniDIN-4P plug WAADALP10A

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



4 GB microSD card







WAPROREPORTSPLUS



Three-phase socket adapter 63 A

WAADAAGT63P

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

Calibration certificate with accreditation

Three-phase socket

adapter 16 A / 32 A WAADAAGT16P WAADAAGT32P

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

Sonel Reports PLUS software