





ELECTRICAL INSTALLATIONS METERS

WME-5

(MPI-502, MIC-10, CMP-400)



This set allows for performance of measurements in accordance with the HD 60364-6:2008 and EN 61557 standards:

- measurement of short-circuit loop parameters,
- testing of A and AC type residual current circuit breakers,
- measurement of continuity of protective connections,
- measurement of insulation resistance at voltage of 1 kV,
- measurement of voltage and frequency.

Wireless transmission of measurement results from the MPI-502 meter memory to a computer with the included OR-1 adapter.

The set, including all the accessories, is stored in a convenient and durable aluminum case.

Sonel S.A. ul. Wokulskiego 11 58-100 Świdnica tel. +48 74 85 83 860 fax +48 74 85 83 809

export@sonel.pl www.sonel.pl

Standard accessories included in the WME-5 set:

- MPI-502 meter
- MIC-10 meter
- CMP-400 meter
- 1.2 m blue test lead with banana plugs
- 1.2 m red test lead with banana plugs
- 1.2 m yellow test lead with banana plugs
- yellow test probe with a banana socket
- red test probe with a banana socket - blue test probe with a banana socket
- "Crocodile" clip K01; black
- "Crocodile" clip K02; yellow
- WS-05 adapter with a UNI-Schuko plug

- - WMPI MIC10
- WMPI CMP400
- WAPRZ1X2BUBB
- WAPRZ1X2REBB
- WAPRZ1X2YEBB
- WASONYEOGB1
- WASONREOGB1
- WASONBUOGB1 WAKROBL20K01 WAKROYE20K02

WAADAWS05

- MPI-502, MIC-10 calibration certificates
- DVD with software: including Sonel Reader (for reading data from the instrument's memory)

- MPI-502, MIC-10, CMP-400 operating manuals

WMPLMPI502 - receiver - OR-1 USB interface for radio transmission WAADAUSBOR1 - meter harness (2 pcs.) WAP07S7F4

WAPOZUCH1 - meter bracket (2 pcs.) - test leads (complete set) WAPR7CMP1 - aluminum case for meters with accessories



MPI-502



- Measurement of short-circuit loop parameters (EN 61557):
- measurement of short-circuit loop impedance in systems of nominal voltages: 220/380 V, 230/400 V, 240/415 V, and frequency range of 45...65 Hz,
- measurement of short-circuit loop impedance with 15 mA current without tripping residual current circuit breakers.
- Testing of A and AC type residual current circuit breakers:
 - testing instantaneous, short-time delay and selective residual current circuit breakers of nominal differential currents: 10, 30, 100, 300, 500 mA.
- measurement of L
- measurement of R_E and U_B without tripping the RCD,
- extended AUTO function for measuring RCD with the capability of Z_{L-PE} measurement with small current,
- measurement of I_A and t_A with single RCD tripping.
- Detection of the replacement L and N in the socket and automatic swap in the meter.
- Low-voltage measurement of resistance, protective connections and equipotential bonding:
- measurement of continuity of protective connections with current ±200 mA,
- automatic calibration of test leads capability of using any test leads,
- measurement of resistance with low current and acoustic signaling.
- Quick verification of correctness of the PE wire connection with a touch probe.
- Measurement of AC voltage and frequency of power network.
- Powered by LR6 batteries or NiMH rechargeable batteries.
- The instrument meets the requirements of the EN 61557 standard.

Electrical safety:

- insulation type double, in acc. with EN 61010 and IEC 61557 IV 300V (III 600V) safety category in acc. with EN 61010-1

- enclosure protection rating in acc. with PN-EN 60529

IP67 Other technical data:

- weight - number of Z or RCD measurements

(for rechargeable batteries) > 5000 (2 measurements per minute)

MIC-10



Measurement of insulation resistance:

- selectable measurement voltage: 50, 100, 250, 500, 1000 V,
- continuous indication of measured insulation resistance,
- automatic discharge of measured object capacitive voltage after the completion of insulation resistance measurement,
- acoustic signaling of 5 seconds intervals to facilitate capturing time characteristics,
- indication of actual test voltage during measurement,
- protection against measuring live objects,
- three-lead measurement.
- Measurement of continuity of protective connections and equipotential bonding in accordance with EN 61557-4 with current > 200 mA.
- Low-voltage measurement of circuit continuity and resistance:
- circuit resistance measurement (<1999Ω) with current < 15 mA,
- quick acoustic signaling for a circuit of resistance lower than 30Ω .
- ullet Measurement of capacity during the measurement of ${f R}_{{
 m iso}}$
- DC and AC voltage measurement in the range of 0...600 V.
- Powered by 4 AA rechargeable or alkaline batteries, power supply voltage is monitored by the meter.
- The instrument meets the requirements of the EN 61557 standard.

Flectrical safety:

double in acc with insulation type EN 61010-1 and IEC 61557 IV 600V (III 1000V) - measurement category in acc. with EN 61010-1

enclosure protection rating in acc. with EN 60529

IP67

LCD segment

approx. 1 kg

Other technical data:

- weight

- dimensions - display

4 AA-size alkaline or - power supply Ni-Cd rechargeable batteries approx. 0.6 kg 220 x 100 x 60mm

CMP-400



- Measurement of AC current up to 400 A.
- Measurement of DC and AC voltages up to 600 V.
- Measurement of resistance and testing connection continuity:
- acoustic signaling of circuit continuity (for resistance value lower than 50Ω).
- Measurement of temperature (units in degrees Fahrenheit or Celsius).
- Measurement of frequency.
- · Diode testing.
- · Additionally:
- touchless neon light,
- safe, insulated measurement jaws,
- rugged, impact-resistant enclosure,
- selectable automatic or manual selection of measurement ranges,
- HOLD function allowing for freezing displayed results,
- backlit LCD display,
- relative measurement function,
- over-range indication.
- auto-OFF function.

Electrical safety:

- measurement category CAT III 600 V in acc. with EN 61010-1:2004

- enclosure protection rating in acc. with FN 60529

Other technical data:

- power supply 6LR61 type 9 V battery

4000 readouts, backlit LCD - display

- continuity test $\,$ I < 0.5 mA, acoustic signal for R < 50 Ω

- diode test $I = 0.3 \text{ mA}, U_0 = 1.5 \text{ V DC}$

- frequency of measurement 2 readouts per second

- input impedance 10MΩ (V DC and V AC)

- clamp size spread of approx. 30 mm (1.2")

- auto-OFF timeout approx. 30 minutes

- dimensions 197 x 70 x 40 mm

- weight 183a

IP40