

ELECTRICAL INSTALLATIONS METERS

WME-6 (MPI-502, MIC-2510, CMP-400)



The sets enable the performance of measurements in accordance with the HD 60364-6 standard:

- 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 2,5kV,
- measurement of voltage and frequency.

Wireless transmission of measurement results from the MPI-502 and MIC-2510 meters 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.

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Standard accessories included in the WME-6 set:

- | | | | |
|---------------------------------------------------------|--------------|---------------------------------------------------------|-------------|
| - MPI-502 meter | WMGBMPI502 | - Power supply adaptor Z7 | WAZASZ7 |
| - MIC-2510 meter | WMGBMIC2510 | - Rechargeable battery pack | WAAKU10 |
| - CMP-400 meter | WMGBCMP400 | - Hanging straps | WAP0ZSZE2 |
| - Test lead with banana plug; 1,8m; 5kV; red | WAPRZ1X8REBB | - Adapter WS-05 with UNI-Schuko | WAADAWS05 |
| - Test lead with banana plug; 1,8m; 5kV; blue | WAPRZ1X8BUBB | - Receiver – interface for radio transmission OR1 (USB) | WAADAUSBOR1 |
| - Test shielded lead with banana plug; 1,8m; 5kV; black | WAPRZ1X8BLBB | - Hanging straps | WAP0ZSZE4 |
| - "Crocodile" clip K04; 5kV; black | WAKROBL20K04 | - Aluminium hard case for meters and accessories | WAWALL4 |
| - "Crocodile" clip K05; 5kV; red | WAKRORE20K05 | - Sonel Reader software | |
| - Pin probe 5kV with banana connector; red | WASONREOGB2 | - Calibration certificates (MPI-502, MIC-2510) | |
| - Pin probe 5kV with banana connector; black (MIC-2510) | WASONBLOGB2 | - Batteries (MPI-502, CMP-400) | |

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 I_A
 - measurement of R_E and U_E 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
- safety category IV 300V (III 600V) in acc. with EN 61010-1

- enclosure protection rating in acc. with EN 60529 IP67

Other technical data:

- weight approx. 1 kg
- number of Z or RCD measurements (for rechargeable batteries) > 5000 (2 measurements per minute)

MIC-2510



- **Insulation resistance measurement:**
 - selectable measurement voltage 100, 250, 500, 1000 V or any in the range of 50...2500 V at 10 V resolution,
 - continuous indication of measured insulation resistance or leakage current,
 - 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,
 - metered T_1 , T_2 and T_3 test times for measuring one or two absorption coefficients from the range of 1...600 s,
 - capability of automatic measurement of multi-wire cables with the additional AutoISO-2500 adapter,
 - indication of actual test voltage during measurement,
 - protection against measuring live objects.
- **Continuity measurement of protective connections and equipotential bonding in accordance with PN-EN 61557-4 with current > 200 mA.**
- **Circuit continuity and resistance measurement at low voltage.**
 - circuit resistance measurement ($< 999 \Omega$) with current < 15 mA,
 - quick acoustic signaling for a circuit of resistance lower than 10 compensation (automatic zero) of test lead resistance.
- **Measurement of leakage current during insulation resistance testing.**
- **Measurement of capacity during the measurement of R_{iso} .**
- **Continuous measurement of surrounding temperature with the capability of recording results in memory.**
- **DC and AC voltage measurement in the range of 0...600 V.**
- **990 cells of memory (11880 records) with the capability of wireless data transmission to a PC (with the USB-OR-1 adapter) or through a USB cable.**
- **Power supply from battery packs.**
- **The instruments meet the requirements of the EN 61557 standard.**

Electrical safety:

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

- enclosure protection rating in acc. with EN 60529 IP54

Other technical data:

- power supply SONEIL L-1 NiMH 9.6V battery pack
- weight approx. 1.3 kg
- dimensions 260 x 190 x 60 mm
- display LCD segment

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 50 Ω).
- **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 EN 60529 IP40

Other technical data:

- power supply 6LR61 type 9 V battery
- display 4000 readouts, backlit LCD
- continuity test $I < 0.5$ mA, acoustic signal for $R < 50 \Omega$
- diode test $I = 0.3$ mA, $U_0 = 1.5$ V DC
- frequency of measurement 2 readouts per second
- input impedance 10M Ω (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 183g