



MZC-306

LOOP IMPEDANCE METER

UP TO

max. 750V!

CAT IV

600V

IP 54



- Loop impedance measurement with resolution 0,01Ω
- Loop impedance measurement without tripping the circuit breaker > 30mA with resolution 0,01Ω (100...440V)
- Measurements possible in installations 110/190V, 115/200V, 127/220V, 220/380V, 230/400V, 240/415V, 290/500V and 400/690V (range 100...750V)
- Short circuit current indication
- Voltage measurement up to 750V and up to 250V with resolution 0,1V
- Measurements using Uni-Schuko adapter or test wires 1,2; 5; 10 and 20m
- Memory of 990 records
- USB connection with PC
- Powered by disposable or rechargeable (4xLR14)

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MZC-306

Measurement of short circuit loop impedance (Z_{L-PE} , Z_{L-N} , Z_{L-L})

Measuring range according to IEC61557: 0,13...1999Ω for 1,2m test leads; 0,25...1999Ω for UNI-SCHUKO adapter

Range	Resolution	Accuracy
0,00...19,99Ω	0,01Ω	±(5% m.v. + 3 digits)
20,0...199,9Ω	0,1Ω	±(4% m.v. + 3 digits)
200...1999Ω	1Ω	±(4% m.v. + 3 digits)

- rated operating voltage U_{N-L} / U_{N-L-L} : 110/190V, 115/200V, 127/220V, 220/380V, 230/400V, 240/415V, 290/500V, 400/690V,
- operating voltage range: 100...440V (for Z_{L-PE} and Z_{L-N}) and 100...750V (for Z_{L-L})
- high current measurement (up to 30A),
- operating frequency range: 45...65Hz,
- control of correctness of PE terminal connection by means of a contact electrode (applicable to Z_{L-PE}),
- measurement is also possible when L and N circuits are swapped,
- measurement of resistance and reactance components,
- short circuit current calculation.

Measurement of short circuit loop impedance Z_{L-PE} [RCD] (without RCD tripping)

Measuring range according to IEC61557: 0,43...1999Ω for 1,2m test leads; 0,50...1999Ω for UNI-SCHUKO adapter

Range	Resolution	Accuracy
0,00...19,99Ω	0,01Ω	±(6% m.v. + 10 digits)
20,0...199,9Ω	0,1Ω	±(6% m.v. + 5 digits)
200...1999Ω	1Ω	±(6% m.v. + 5 digits)

- operating voltage range: 100 ... 440V,
- rated operating voltage Un: 110V, 115V, 127V, 220V, 230V, 240V, 390V, 400V,
- control of correctness of PE terminal connection by means of a contact electrode,
- measurement is also possible when L and N circuits are swapped,
- measurement of resistance and reactance components,
- short circuit current calculation.

Voltage measurement

Range	Resolution	Accuracy
0,0...249,9V	0,1V	±(2% m.v. + 4 digits)
250...750V	1V	±(2% m.v. + 2 digits)

- Measurement available for all settings of short-circuit loop (Z_{L-PE} , Z_{L-PE} [RCD] and $Z_{L-N,L-L}$),
- frequency range 45...65Hz,
- overvoltage alarm.

Electrical safety:

- type of insulation double, according to IEC 61010-1
- measurement category CAT IV 600V (CAT III 1000V)
- protection class acc. to EN 60529 IP54

Other technical data

- | | |
|---|---|
| - power supply | alkaline batteries or NiMH rechargeable batteries, LR14 (4 pcs) |
| - number of Z measurements (for alkaline batteries) | > 5000 |
| - time to Auto-OFF | 300 seconds |
| - data transmission | USB |
| - memory of measurement results | 990 cells, 3500 entries |
| - display | LCD segment |
| - dimensions | 288 x 223 x 75mm |
| - meter weight | ca. 2 kg |

Rated operational conditions:

- | | |
|-------------------------|------------|
| - operating temperature | 0...+45°C |
| - storage temperature | -20...60°C |
| - humidity | 20-80% |

The instrument meets the requirements of EMC standards

Standard accessories of meter MZC-306:

- Adapter WS-05 with UNI-Schuko
- WAADAWS05
- Test lead with banana plug; 1,2m; yellow
- WAPRZ1X2YEBB
- Test lead with banana plug; 1,2m; blue
- WAPRZ1X2BUBB
- Test lead with banana plug; 1,2m; red
- WAPRZ1X2REBB
- "Crocodile" clip K02; blue
- WAKROBU20K02
- "Crocodile" clip K02; red
- WAKRORE20K02
- Pin probe with banana connector- blue
- WASONBU0GB1
- Pin probe with banana connector- red
- WASONRE0GB1
- Pin probe with banana connector- yellow
- WASONYE0GB1
- Carrying case L4
- WAFUTL4
- USB cable
- WAPRZUSB
- Hanging straps
- WAPOZSZE2
- NiMH 4,8V 4,2Ah
- WAAKU07
- Power supply adaptor Z7
- WAZASZ7
- Calibration certificate issued by calibration laboratory
- Operating manual

Optional accessories of meter MZC-306:

- Probe with START button with UNI-Schuko (WS-01)
- WAADAWS01
- software for creation of documentation from electrical measurements "Sonel Reports"
- WASONPROT
- Triple phase socket adapter AGT-16P
- WAADAAGT16P
- Triple phase socket adapter AGT-32P
- WAADAAGT32P
- Triple phase socket adapter AGT-63P
- WAADAAGT63P
- Triple phase socket adapter AGT-16C
- WAADAAGT16C
- Triple phase socket adapter AGT-32C
- WAADAAGT32C
- Test lead with banana plug 5m; red
- WAPRZ005REBB
- Test lead with banana plug 10m; red
- WAPRZ010REBB
- Test lead with banana plug 20m; red
- WAPRZ020REBB