



MZC-306

LOOP IMPEDANCE METER

UP TO**max. 750V!****CAT IV****600V****IP 54**

- Loop impedance measurement with resolution 0,01 Ω
- Loop impedance measurement without tripping the circuit breaker > 30mA with resolution 0,01 Ω (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 $U_{n,nl}/U_{n,l-L}$: 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	

- operating voltage range: 100 ... 440V,
- rated operating voltage U_n : 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
- Test lead with banana plug; 1,2m; yellow
- Test lead with banana plug; 1,2m; blue
- Test lead with banana plug; 1,2m; red
- "Crocodile" clip K02; blue
- "Crocodile" clip K02; red
- Pin probe with banana connector- blue
- Pin probe with banana connector- red
- Pin probe with banana connector- yellow
- Carrying case L4
- USB cable
- Hanging straps
- NiMH 4,8V 4,2Ah
- Power supply adaptor Z7
- Calibration certificate issued by calibration laboratory
- Operating manual

WAADAWS05
WAPRZ1X2YEBB
WAPRZ1X2BUBB
WAPRZ1X2REBB
WAKROBU20K02
WAKRORE20K02
WASONBUOGB1
WASONREOGB1
WASONYEOGB1
WAFUTL4
WAPRZUSB
WAPOZSZE2
WAAKU07
WAZASZ7

Optional accessories of meter MZC-306:

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

WAADAWS01

WASONPROT
WAADAAGT16P
WAADAAGT32P
WAADAAGT63P
WAADAAGT16C
WAADAAGT32C
WAPRZ005REBB
WAPRZ010REBB
WAPRZ020REBB