

MZC-304

index: WMGBMZC304











Measurement of fault loop and more

Capabilities

- Fault loop impedance measurement with 0.01 Ω resolution.
- Low-current impedance measurement in circuits protected by RCD ≥ 30mA with 0.01 Ω resolution (range of 180...270 V)
- Operates in networks with voltages 220/380 V, 230 V/400 V, 240/415 V (operating range 180...460 V)
- Operating voltage range: 180...270 V (for Z_{L-PE} and Z_{L-N}) and 180...460 V (for Z_{L-L}). Maximum measuring current: 7.6 A for 230 V (3x10 ms), 13.3 A for 400 V (3x10 ms).
- Operating frequency 45...65 Hz
- Calculation of I, fault current.
- Measurement with swapped L and N conductors.
- Measurement of resistance (R_s) and reactance (X_s) components.
- Low-voltage measurement of continuity of circuit and resistance.

Additional features

- Contact electrode quick testing of proper connection of PE conductor.
- Voltage measurement 0...500 V.
- Frequency measurement 45.0...65.0 Hz.
- Memory of 990 measurement results, ability to transfer the data to a PC via Bluetooth.
- Power supply: batteries (4 x LR14) or rechargeable batteries (4 x NiMH).

Application

The instrument is dedicated to personnel performing measurements in single and multi-family buildings, office buildings, industrial plants and any other places equipped with low voltage electrical systems. In addition, the meter is intended for maintenance personnel working on objects, where fault currents reach 4.4 kA (measured according to EN 61557). MZC-304 is also a great tool for checking circuits additionally protected by residual current devices.





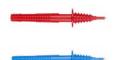
Technical specifications				
Measurement functions	Measurement range	Display range	Resolution	Accuracy ±(% m.v. + digits)
Voltage	0 V500 V	0 V500 V	from 0.1 V	from ±(2% m.v. + 2 digits)
Frequency	45.0 Hz65.0 Hz	45.0 Hz65.0 Hz	0.1 Hz	±(0.1% m.v. + 1 digit)
Short-circuit loop parameters				
2p method - standard current measurement maximum current 13.3 A	from 0.13 Ω1999 Ω acc. to EN 61557	0.00 Ω1999 Ω	from 0.01 Ω	±(5% m.v. + 3 digits)
2p method - measurements without tripping RCDs	from 0.5 Ω1999 Ω acc. to EN 61557	0.00 Ω1999 Ω	from 0.01 Ω	from ±(6% m.v. + 5 digits)
Short-circuit current readings				
2p method - standard current measurement	Calculated on the basis of test Z _s ranges and rated voltages	1.110 A40.0 kA	from 0.001 A	Calculated on the basis of error for fault loop
2p method - measurements without tripping RCDs	Calculated on the basis of test Z _s ranges and rated voltages	1.110 A24.0 kA	from 0.001 A	Calculated on the basis of error for fault loop
Measurement of continuity of protective cond	uctors and equipotential bondi	ng		
Low-voltage measurement of continuity of circuit and resistance with ±200 mA current	$0.12~\Omega400~\Omega$ acc. to EN 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)
Safety and work conditions				
Measuring category according to EN 61010		IV 300 V, III 600 V		
Ingress protection		IP67		
Type of insulation according to EN 61010-1 and EN 61557		double		
Power supply		4x LR6 1.5 V alkaline battery 4x AA size NiMH rechargeable battery		
Dimensions		220 x 98 x 58 mm		
Weight		ca. 0.6 kg		
Operating temperature		0+50°C		
Storage temperature		-20+70°C		
Humidity		2090%		
Nominal temperature		23 ± 2°C		
Reference humidity		40%60%		
Memory and communication				
Memory of measurement results		990 results		
Data transmission		Bluetooth		
Other information				
Quality standard – development, design and production		ISO 9001		
The product meets the EMC (emission for industrial environment) requirements according to standards		EN 61326-1 EN 61326-2-2		
m.v measured value				

Standard accessories



WS-05 adapter with UNI-SCHUKO angular plug

WAADAWS05



Pin probe 1 kV (banana socket) red / blue

WASONREOGB1 WASONBUOGB1



Crocodile clip 1 kV 20 A yellow

WAKROYE20K02



Test lead 1.2 m (banana plugs) red / blue / yellow

WAPRZ1X2REBB WAPRZ1X2BUBB WAPRZ1X2YEBB



M1 hanging straps

WAPOZSZE4



M6 carrying case

WAFUTM6



4x LR6 1.5 V battery



Factory calibration certificate

Optional accessories



WS-01 adapter with START button with UNI-Schuko plug

WAADAWS01



WS-07 adapter for measuring Z(L-N) loop

WAADAWS07



Crocodile clip 1 kV 20 A red / blue

WAKRORE20K02 WAKROBU20K02



Pin probe 1 kV (banana socket) yellow

WASONYEOGB1



Test lead 5 / 10 / 20 m red 1 kV (banana plugs)

WAPRZ005REBB WAPRZ010REBB WAPRZ020REBB





Industrial socket adapter 16A / 32A

WAADAAGT16T WAADAAGT32T





Three-phase socket adapter 16A / 32A

WAADAAGT16C WAADAAGT32C



Three-phase socket adapter 16A / 32A

WAADAAGT16P WAADAAGT32P





Three-phase socket adapter 63 A

WAADAAGT63P



Calibration certificate with accreditation

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