

AMZC-306

HIGHEST ACCURACY & LOWEST COST



Loop Impedance Meter

AMZC-306

Loop impedance measurement with resolution 0,01 Ω

Voltage measurement up to 750V


Memory of 990 records

USB connection with PC

Powered by disposable or rechargeable

amperis

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The most important features of AMZC-306 are:

- 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).



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 | ±(6% m.v. + 10 digits) |
| 20,0...199,9Ω | 0,1Ω | ±(6% m.v. + 5 digits) |
| 200...1999Ω | 1Ω | |

Rated operating voltage U_{L-N} / U_{N-L} : 110/190V, 115/200V, 127/220V, 220/380V, 230/400V, 240/415V, 290/500V, 400/690V
 Voltage range 100...440V (for Z_{L-PE} , 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 (Z_{L-PE}).
 Measurement is also possible when L and N circuits are swapped.
 Measurement of resistance and reactance components.
 Short circuit current calculation.

Measuring 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...1999 Ω 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...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 $Z_{L-N,LL}$.
 Frequency range 45...65Hz.
 Overvoltage alarm.

"m.v." - measured value.

AMZC-306 Specifications

Electrical safety:

| | |
|--|-------------------------------|
| Type of insulation | Double, according 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, size 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 | 288x223x75mm |
| Meter weight | 2 kg |

Rated operational conditions:

| | |
|------------------------------|------------|
| Operating temperature | 0...+45°C |
| Storage temperature | -20...60°C |
| Humidity | 20-80% |

Standard accessories:

- Adapter UNI-SCHUKO (WS-05)
- Test lead with banana plug; 1,2m; red
- Test lead with banana plug; 1,2m; yellow
- Test lead with banana plug; 1,2m; blue
- Pin probe with banana connector; red
- Pin probe with banana connector; yellow
- Pin probe with banana connector; blue
- "Crocodile" clip K02; red
- "Crocodile" clip K02; blue
- Carrying case L4
- USB cable
- Hanging straps
- NiMH 4,8V 4,2Ah
- Power supply adaptor Z7
- Operation manual
- Calibration certificate

Optional accessories:

- Probe with START button with UNI-SCHUKO (WS-01)
- Software for creation of documentation from electrical measurements
- 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