

# MI3100S EUROTESTEASI

– ELECTRICAL INSTALLATION SAFETY TESTER



MI3100s EurotestEASI is a fast, accurate and easy to use multifunctional measuring instrument which performs a basic set of installation safety tests according to IEC/EN 61557. The MI3100s EurotestEASI enables online voltage monitoring, phase sequence testing and earth resistance measurement. EurotestEASI is equipped with integrated characteristics of fuses and RCDs for PASS/FAIL evaluation of test results.

## MEASURING FUNCTIONS:

- Insulation resistance with DC voltage from 50 V to 1000 V
- Continuity of PE conductors with 200 mA test current with polarity change
- Continuity of PE conductors with 7 mA test current without RCD tripping
- Line impedance
- Loop impedance
- Loop impedance with Trip Lock RCD function
- TRMS voltage and frequency
- Phase sequence
- RCD testing (general and selective, type AC, A, F)
- Earth resistance (3-wire method)

## KEY FEATURES:

- **Built-in help screens for referencing on site**
- **Built-in fuse tables for automatic evaluation of the line / loop impedance result**
- **Automated RCD testing procedure**
- Monitoring of all 3 voltages in real-time
- Automatic polarity reversal on continuity test
- Loop impedance test without tripping the RCD
- Built-in charger and rechargeable batteries as standard accessory

## APPLICATION:

- Initial and periodic testing of domestic and industrial installations
- Testing of single and multiphase systems
- Testing of TT and TN supply systems

## STANDARDS:

- Functionality:
  - EN 61557
- Other reference standards for testing:
  - IEC/EN 60364-4-41;
  - EN 61008;
  - EN 61009;
  - BS 7671;
  - AS/NZ 3017;
- Electromagnetic compatibility (EMC):
  - EN 61326
- Safety (LVD):
  - EN 61010-1;
  - EN 61010-031
  - EN 31010-2-030
  - EN 31010-2-032



# MI3100S

## TECHNICAL SPECIFICATIONS



Function	Measuring Range	Resolution	Accuracy	
CONTINUITY	Test Current 7 mA 2-wire	0.00 Ω ... 19.99 Ω 20.0 Ω ... 1999 Ω	0.1 Ω 1 Ω	±(5% of r. + 5 digits)
	Test Current 200 mA 2-wire	0.00 Ω ... 19.99 Ω 20.0 Ω ... 99.9 Ω 100.0 Ω ... 1999 Ω	0.01 Ω 0.1 Ω 1 Ω	±(3% of r. + 3 digits) ±(5% of r.) ±(5% of r.)
INSULATION RESISTANCE	Test Voltage 50/100/250V	0.00 M Ω ... 19.99 M Ω 20.0 M Ω ... 99.9 M Ω 100.0 M Ω ... 199.9 M Ω	0.01 M Ω 0.1 M Ω	±(5% of r. + 3 digits) ±(10% of r.) ±(20% of r.)
	Test Voltage 500/1000V	0.00 M Ω ... 19.99 M Ω 20.0 M Ω ... 199.9 M Ω 200 M Ω ... 999 M Ω	0.01 M Ω 0.1 M Ω 1 M Ω	±(5% of r. + 3 digits) ±(5% of r.) ±(10% of r.)
RCD	RCD Uc	0.00V ... 19.99V 20.0V ... 99.9V	0.1V	(-0%/±15%) of r. ± 10 digits (-0%/±15%) of r.
	RCD (t),	0.00ms ... 40.0ms 0.0V ... max. time	0.1ms	±1ms ±3ms
	RCD I Ramp	0.2xIΔN ... 1.1xIΔN (AC) 0.2xIΔN ... 1.5xIΔN (A), IΔN ≥30 mA) 0.2xIΔN ... 2.2xIΔN (A), IΔN <30 mA)	0.05xIΔN	±0.1xIΔN
IMPEDANCE	Zline, L-L, L-N Ipsc	0.00 Ω ... 9.99 Ω 10.0 Ω ... 99.9 Ω 100 Ω ... 999 Ω 1.00 k Ω ... 9.99 k Ω	0.01 Ω 0.1 Ω 1 Ω 10 Ω	±(5% of r. + 5 digits) ±(10% of r.)
	Zloop, L-PE, Ipf	0.00 Ω ... 9.99 Ω 10.0 Ω ... 99.9 Ω 100 Ω ... 999 Ω 1.00 k Ω ... 9.99 k Ω	0.01 Ω 0.1 Ω 1 Ω 10 Ω	±(5% of r. + 5 digits) ±(10% of r.)
VOLTAGE	TRMS	0 ... 550V	1V	±(2% of r. + 2 digits)
	Frequency	0.00 Hz ... 9.99 Hz 10.0 Hz ... 499.9 Hz	0.01 Hz 0.1 Hz	±(0.2% of r. + 1 digit)
EARTH RESISTANCE	3 wire	0.00 Ω ... 19.99 Ω 20.0 Ω ... 199.99 Ω 200.0 Ω ... 9999 Ω	0.01 Ω 0.1 Ω 1 Ω	±(5% of r. + 5 digits)
GENERAL	Power supply	9 VDC (6x1.5V battery or accu, size AA)		
	Overvoltage category	1000V DC CAT II; 600V CAT III; 300V CAT IV		
	Protection class	Double insulation		
	Weight	1.3kg		
	Size (L x H x W)	230x103x115mm		

### ORDERING INFORMATION - Standard set



- Instrument EurotestEASI
- Schuko-plug test cable, 1.5 m
- Test lead, 3 x 1.5 m
- Test probe, 3 pcs (blue, black, green)
- Crocodile clip, 3 pcs (blue, black, green)
- Power supply adapter + 6 NiMH rechargeable batteries, size AA
- Soft carrying neck belt
- Soft carrying bag
- Short instruction manual
- Instruction manual on CD
- Handbook on CD
- Calibration certificate

### OPTIONAL ACCESSORIES

Photo	Order No.	Description
	A1201	Insulated rod for CONTINUITY measurement
	A1202	Additional extension part for A1201
	A1153	Test lead, black, 20m
	A1154	Test lead, black, 4m
	A1198	Magnetic contact probe
	S2026	Earth test set, 3-wire, 20m
	S2027	Earth test set, 3-wire, 50m

Note: Photographs in this datasheet may differ slightly from the instruments at the time of delivery. Subject to technical change without notice.

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