

MarMonix MIR 1000

Digital Insulation and Continuity



Quick Spec Highlights

- **Test Voltages:** 100 V / 250 V / 500 V / 1000 V
- **Insulation Resistance Range:** 0 – 5.5G Ω
- **Voltage Measurement:** 30–600 V AC (50/60 Hz), 1 V resolution
- **Small Resistance Range:** 0.0 – 999 Ω
- **Operating Conditions:** 0–40 $^{\circ}\text{C}$ / \leq 85% RH

Ordering Info

- **Part Number :** 7603231
- **GTIN:** 6298043998314

Package Contents

- 1 x MIR 1000 (main unit)
- 6 x 1.5V AA battery
- 2 x Test lead
- 2 x Crocodile clip
- 1 x User manual
- 1 x Strap
- 1 x Cloth bag
- 1 x Certificate of Conformity
- 1 x Warranty card

Key Features

- Insulation resistance testing at 100 V / 250 V / 500 V / 1000 V
- PI (Polarization Index) & DAR (Absorption Ratio) measurement
- AC/DC voltage measurement with auto-identification
- 0–999 Ω small resistance measurement
- Automatic discharge after insulation tests
- Over-limit, high voltage & short-circuit protection
- Red light + buzzer alarm indicators
- Large LCD display with clear status icons
- Data hold, low battery alert, and auto-range

Warranty

This device is covered by a 2-year warranty from the date of purchase, ensuring reliability and long-term support. The warranty applies to defects in materials and workmanship under normal use. It excludes consumables (fuses, disposable batteries) and damage caused by accident, misuse, modification, contamination, or operation outside specified conditions.

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Specifications

Technical specifications	
Technical parameters	Technical index
display	Large-screen LCD (up to 500 counts).
Over limit indication	Hi: The mark appears on insulation resistance range.
Auto range	Higher range: 500 counts Lower range: 1 count (only on insulation resistance range)
Sampling Rate	2 times / second.
Allowed altitude	≤2000m (for indoor use)
Operation environment	Temperature: 0°C~40°C / Humidity: ≤85%
Operation environment	Temperature: -20°C ~ 60°C / Humidity: ≤90%
Overload protection	Insulation resistance range: AC 1200V / 10 seconds Voltage range: AC 720V / 10 seconds
Withstand voltage	AC 6000V (50 / 60Hz) / 5 seconds (between circuit and periphery)
Insulation resistance	≥1000MΩ / DC 1000V (between circuit and periphery)
power supply	DC9V (6×1.5V AA batteries)
Current consumption	Approximately 1.5A (maximum) (normally maintained at approximately 50mA)
Battery Life	About 12 hours
Dimension	176×110×77mm

Disclaimer

The information contained in this datasheet is believed to be accurate and reliable at the time of publication. However, MarMonix reserves the right to make changes to specifications, features, or design without prior notice. Performance specifications apply under standard laboratory conditions and may vary in different environments. This product is intended for professional use only. MarMonix shall not be liable for any incidental, consequential, or special damages arising from the use of this product.

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Specifications

Insulation resistance test				
Rated voltage	100V	250V	500V	1000V
Measurement range	0~1.5GΩ	0~5.5GΩ	0~5.5GΩ	0~5.5GΩ
Open circuit voltage	DC 100V +20% -0%	DC 250V +20% -0%	DC 500V +20% -0%	DC 1000V +20% -0%
Standard test	0.1MΩ load time	0.25MΩ load time	0.5MΩ load time	1.0MΩ load time
Constant current	1mA~1.2mA	1mA~1.2mA	1mA~1.2mA	1mA~1.2mA
Short circuit	≈ 2.0 mA			
Accuracy	±5%rdg ±3dgt (above 100KΩ)			

Small resistance measurement	
Open circuit voltage	About 5.0V
Measuring range	0.0~999Ω
Resolution	0.1Ω
Accuracy	± (2%+3)

Voltage measurement 30 ~ 600V (resolution 1V)		
	DC voltage	AC voltage
Measurement range	±30~±600V	30~600V (50/60Hz)
Resolution	1V	
Accuracy	±2%rdg±3dgt	