

MarMonix MMU 112

Digital Multimeter



Quick Spec Highlights

- **Measurement Range:** Voltage up to 1000 V DC / 750 V AC; Current up to 20 A AC
- **Accuracy:** $\pm(0.5\% + 3 \text{ digits})$ for DC Voltage; $\pm(1.0\% + 3 \text{ digits})$ for AC Voltage
- **Display:** 6000 counts, backlit LCD with auto-ranging

Ordering Info

- **Part Number :** 7603331
- **GTIN:** 6298043998079

Package Contents

- Main Unit
- Test leads
- Temperature probe
- 2 x AA batteries
- Warranty Card
- Certificate of Conformity

Key Features

- **True RMS Accuracy:** Ensures reliable readings even on non-sinusoidal waveforms.
- **Comprehensive Measurement Capabilities:** Supports AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle, diode testing, and continuity.
- **Temperature Measurement:** Measures from -20°C to 1000°C (-4°F to 1832°F) with thermocouple input.
- **Inrush Current Detection:** Captures starting current of motors and inductive loads for advanced diagnostics.
- **Auto Power-Off & Data Hold:** Conserves battery life and retains critical readings.
- **Rugged Design:** Compact ABS housing with integrated flashlight for low-light environments.

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

Electrical Specifications				
Function	Range	Resolution	Accuracy	Max. Value
DC Voltage	60.00 mV	0.01 mV	$\pm(0.5\% + 3)$	600 mV
	600.0 mV	0.1 mV		
	6.000 V	0.001 V		1000 V
	60.00 V	0.01 V		
	600.0 V	0.1 V		
	1000 V	1 V		
AC Voltage	60.00 mV	0.01 mV	$\pm(1.0\% + 3)$	600 mV
	600.0 mV	0.1 mV		
	6.000 V	0.001 V		750 V
	60.00 V	0.01 V		
	600.0 V	0.1 V		
	750 V	1 V		
DC Current	600.0 μ A	0.1 μ A	$\pm(1.2\% + d)$	6000 μ A
	6000 μ A	1 μ A		
	60.00 mA	0.01 mA		600 mA
	600.0 mA	0.1 mA		
	6.000 A	0.001 A		20 A
	20.00 A	0.01 A		
AC Current	600.0 μ A	0.1 μ A	$\pm(1.5\% + d)$	6000 μ A
	6000 μ A	1 μ A		
	60.00 mA	0.01 mA		600 mA
	600.0 mA	0.1 mA		
	6.000 A	0.001 A		20 A
	20.00 A	0.01 A		
Function	Range	Resolution	Accuracy	Max. Value

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Specifications

Resistance	600.0 Ω	0.1 Ω	±(0.5% + 3)	60 MΩ
	6.000 kΩ	0.001 kΩ		
	60.00 kΩ	0.01 kΩ		
	600.0 kΩ	0.1 kΩ		
	6.000 MΩ	0.001 MΩ		
	60.00 MΩ	0.01 MΩ	±(1.5% + 3)	
Capacitance	9.999 nF	0.001 nF	±(5.0% + 20)	9.999 mF
	99.99 nF	0.01 nF	±(2.0%+5)	
	999.9 nF	0.1 nF		
	9.999 μF	0.001 μF		
	99.99 μF	0.01 μF		
	999.9 μF	0.1 μF		
	9.999 mF	0.001 mF	±(5.0% + 5)	
Frequency	99.99 Hz	0.01 Hz	±(0.1% + 2)	9.999 MHz
	999.9 Hz	0.1 Hz		
	9.999 kHz	0.001 kHz		
	99.99 kHz	0.01 kHz		
	999.9 kHz	0.1 kHz		
	9.999 MHz	0.001 MHz		
Duty Cycle	1% ~ 99%	0.1%	±(0.1% + 2)	—
Diode Test	—	—	Pass/Fail	—
Continuity	—	—	Beeper < 50 Ω	—
Temperature	-20 ~ 1000 °C	1 °C	±(2.5% + 5)	1000 °C
	-4 ~ 1832 °F	1 °F	±(2.5% + 5)	1832 °F