

# MarMonix MMU P1

## Intelligent Digital Multimeter

### Quick Spec Highlights

- **Measurement Range:** DC/AC Voltage up to 600 V; Resistance up to 40 MΩ; Capacitance up to 9.999 mF; Frequency up to 9.999 MHz
- **Response Time:** ~3 updates per second
- **Display:** 4000-count LCD with auto polarity, overload indication, and low battery warning

### Key Features

- **True RMS Measurement:** Ensures accurate readings on both linear and non-linear loads.
- **Comprehensive Functions:** Measures voltage, resistance, capacitance, frequency, duty cycle, diode, and continuity with precision.
- **Flexible Ranging:** Auto and manual ranging modes for versatile testing scenarios.
- **User-Friendly Interface:** Data hold, relative measurement, and auto power-off functions improve efficiency.
- **Durable & Portable:** Slim ABS housing (125 × 80 × 19.5 mm, 127 g) designed for field use.
- **Safety & Reliability:** CAT II 600 V protection, fused inputs, and clear warning indicators for maximum operator safety.

### Ordering Info

- **Part Number :** 7603311
- **GTIN:** 6298043998062

### Package Contents

- 1 × MMU P1 (main unit)
- 1 × Test Lead
- 2 × 1.5V AAA Battery
- 1 x Wrist strap
- 1 × User Manual
- 1 × Warranty Card
- 1 × Certificate of Conformity

### 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 / Other
DC Voltage	400.0 mV	0.1 mV	±(0.5% + 4)	600 V
	4.000 V	0.001 V		
	40.00 V	0.01 V		
	400.0 V	0.1 V	±(0.8% + 4)	
	600V	1V		
AC Voltage	400.0 mV	0.1 mV	±(1.2% + 4)	600 V / 40 Hz-1 kHz
	4.000 V	0.001 V		
	40.00 V	0.01 V		
	400.0 V	0.1 V		
	600V	1V	±(1.5%+4)	
Resistance	400.0 Ω	0.1 Ω	±(0.8% + 4)	40 MΩ
	4.000 kΩ	0.001 kΩ		
	40.00 kΩ	0.01 kΩ		
	400.0 kΩ	0.1 kΩ		
	4.000 MΩ	0.001 MΩ		
	40.00 MΩ	0.01 MΩ	±(2.0% + 4)	
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	±(2.0% + 5)	
	9.999 μF	0.001 μF	±(2.0% + 5)	
	99.99 μF	0.01 μF	±(2.0% + 5)	
	999.9 μF	0.1 μF	±(2.0% + 5)	
	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		
	999.9kHz	0.1kHz		
	9.999MHz	0.001MHz		

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## Specifications

Electrical Specifications	
Duty Cycle	1% ~ 99%, Resolution 0.1%, Accuracy $\pm(0.1\% + 2)$
Diode	√
Continuity	√
General Specifications	
Display (LCD)	4000 counts
Ranging	Auto / Manual
Material	ABS
Update Rate	3 times/second
True RMS	√
Data Hold	√
Low Battery Indication	√
Auto Power Off	√
Mechanical Specifications	
Dimension	125 × 80 × 19.5 mm
Weight	127 g
Battery Type	2 × 1.5 V AAA
Environmental Specifications	
Operating Temperature	0 ~ 40 °C
Operating Humidity	< 75% RH
Storage Temperature	-20 ~ 60 °C
Storage Humidity	< 80% RH

### 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.