

MarMonix MCA204

Clamp Meter



Ordering Info

- **Part Number** : 7603321
- **GTIN**: 6298043998031

Package Contents

- 1 × MCA 204 (main unit)
- 1 × Premium Test Lead
- 1 × Thermocouple (Type-K Probe)
- 2 × 1.5V AA Battery
- 1 × Wrist Strap
- 1 × Carrying Case
- 1 × User Manual
- 1 × Certificate of Conformity
- 1 × Warranty card

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.

Quick Spec Highlights

- **Measurement Range:** AC current 0–600 A; AC/DC voltage 0–600 V; Resistance 0–40 MΩ; Capacitance 0–4.000 mF; Frequency up to 1.000 MHz; Temperature -30 to 1000 °C (-22 to 1832 °F)
- **Accuracy:** DCV $\pm(0.5\%+3 \text{ d})$; ACV $\pm(1.0\%+3 \text{ d})$; ACA $\pm(2.5\%+8 \text{ d})$ to $\pm(5\%+5 \text{ d})$ by range; $\Omega \pm(0.5\%+3 \text{ d})$ to $\pm(1.5\%+3 \text{ d})$
- **Response Time:** ~3 readings/second (display update rate)

Key Features

- **True RMS + Inrush:** Accurate on distorted waveforms; captures motor inrush current (100 ms window) for start-up diagnostics.
- **Broad Functional Coverage:** Measures AC current, AC/DC voltage, resistance, capacitance, frequency, diode/continuity, temperature, plus NCV for quick live-voltage checks.
- **Auto + Manual Control:** Auto-ranging with MAX/MIN, PEAK HOLD, and REL; rapid mode switching via SEL key.
- **Field-Ready Display:** 4000-count LCD with backlight and data hold for reliable reading in low light.
- **Safety-Driven Design:** Over-range indication (OL), live/neutral judgment aid, and continuity beeper for fast fault isolation.
- **Portable & Efficient:** Compact ABS body (172 × 64 × 32 mm, 172 g), 2×AA battery, auto power-off, and low-battery alert.

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Specifications

Electrical Specifications				
Function	Range	Resolution	Accuracy	Max. Value / Frequency Response
DC Voltage	4.000 V	0.001 V	$\pm(0.5\% + 3)$	600 V
	40.00 V	0.01 V		
	400.0 V	0.1 V		
	600 V	1 V		
AC Voltage	4.000 V	0.001 V	$\pm(1.0\% + 3)$	600 V / 40 Hz – 1 kHz
	40.00 V	0.01 V		
	400.0 V	0.1 V		
	600 V	1 V		
AC Current	4.000 A	0.001 A	$\pm(5\%+5)$	600 A / 40 Hz – 1 kHz
	40.00 A	0.01 A	$\pm(2.5\% + 8)$	
	400.0 A	0.1 A		
	600 A	1 A		
Resistance	400.0 Ω	0.1 Ω	$\pm(0.5\% + 3)$	40 M Ω
	4.000 k Ω	0.001 k Ω		
	40.00 k Ω	0.01 k Ω		
	400.0 k Ω	0.1 k Ω		
	4.000 M Ω	0.001 M Ω		
	40.00 M Ω	0.01 M Ω		
Frequency	4.000 Hz	0.001 Hz	$\pm(0.1\% + 2)$	1.000 MHz
	40.00 Hz	0.01 Hz		
	400.0 Hz	0.1 Hz		
	4.000 kHz	0.001 kHz		
	40.00 kHz	0.01 kHz		
	400.0 kHz	0.1 kHz		
	1.000MHz	0.001MHz		
Capacitance	4.000 nF	0.001 nF	$\pm(5.0\% + 20)$	4.000 mF
	40.00 nF	0.01 nF	$\pm(2.0\% + 5)$	
	400.0 nF	0.1 nF		
	4.000 μ F	0.001 μ F		
	40.00 μ F	0.01 μ F		
	400.0 μ F	0.1 μ F		
	4.000mF	0.001mF	$\pm(5.0\% + 5)$	
Diode	Yes			
Continuity	Yes			
Inrush Current	Yes			
Flashlight	Yes			

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Specifications

Temperature	-30~1000 °C / -22~1832 °F	1 °C / 1 °F	±(2.5% + 5)	1000 °C / 1832 °F
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General Specifications

Display (LCD)	4000 counts
Ranging	Auto
Material	ABS
Update Rate	3 times/second
True RMS	Yes
Data Hold	Yes
Low Battery Alert	Yes
Auto Power Off	Yes

General Specifications

Dimensions	172*64*32mm
Weight	172g
Battery Type	1.5V AA Battery * 2

Environmental Specifications

Operating	Temperature	0~40°C
	Humidity	<75%
Storage	Temperature	-20~60°C
	Humidity	<80%

Disclaimer

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