

# MarMonix MCA 212

## Clamp Meter

### Data Sheet



### Quick Spec Highlights

- **Measurement Range:** Up to 1000 V DC, 750 V AC, 1200 A AC/DC
- **Accuracy:**  $\pm(0.5\% + 3 \text{ digits})$  for DC Voltage,  $\pm(1.0\% + 3 \text{ digits})$  for AC Voltage
- **Display:** 6000 counts LCD with backlight

### Key Features

- **Wide Measurement Capability:** Measures DC voltage up to 1000 V, current up to 1200 A, resistance up to 60 M $\Omega$ , capacitance up to 9.999 mF, and frequency up to 9.999 MHz.
- **True RMS Accuracy:** Ensures precise readings even in distorted or non-linear waveforms, essential for modern electrical systems.
- **Temperature Measurement:** Supports both  $^{\circ}\text{C}$  (-20 to 1000) and  $^{\circ}\text{F}$  (-4 to 1832)
- **Data Management Functions:** Includes data hold, max/min capture, relative measurement, and peak hold.
- **Integrated Safety Functions:** Overload protection, auto power-off, and low battery alerts enhance operational safety.
- **Durable Build:** ABS housing, ergonomic clamp jaws, and a compact design (240 × 90 × 45 mm, 288 g) optimized for field portability.

### Ordering Info

- **Part Number :** 7603341
- **GTIN:** 6298043998086

### Package Contents

- 1 × MCA 212 (main unit)
- 1 × Premium Test Lead
- 1 × Carrying Case
- 1 × Thermocouple (Type-K Probe)
- 1 × 9-volt (9V) battery
- 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.

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## Specifications

### Electrical Specifications

Function	Range	Resolution	Accuracy	Max. Value / Notes
DC Voltage	600.0 mV	0.1 mV	$\pm(0.5\% + 3)$	1000 V
	6.000 V	0.001 V		
	60.00 V	0.01 V		
	600.0 V	0.1 V		
	1000V	1V		
AC Voltage	600.0 mV	0.1 mV	$\pm(1.0\% + 3)$	750 V (40 Hz – 1 kHz)
	6.000 V	0.001 V		
	60.00 V	0.01 V		
	600.0 V	0.1 V		
	750V	1V		
DC Current	600.0 $\mu$ A	0.1 $\mu$ A	$\pm(1.2\% + 3)$	6000 $\mu$ A
	6000 $\mu$ A	1 $\mu$ A	$\pm(2.0\% + 30)$	1200 A
	60.00 A	0.01 A		
	600.0 A	0.1 A		
	1200A	1A		
AC Current	600.0 $\mu$ A	0.1 $\mu$ A	$\pm(1.5\% + 3)$	6000 $\mu$ A (40 Hz – 1 kHz)
	6000 $\mu$ A	1 $\mu$ A	$\pm(2.0\% + 30)$	1200 A (40 Hz – 1 kHz)
	60.00 A	0.01 A		
	600.0 A	0.1 A		
	1200A	1A		
Resistance	600.0 $\Omega$	0.1 $\Omega$	$\pm(0.5\% + 3)$	60 M $\Omega$
	6.000 k $\Omega$	0.001 k $\Omega$		
	60.00 k $\Omega$	0.01 k $\Omega$		
	600.0 k $\Omega$	0.1 k $\Omega$		
	6.000 M $\Omega$	0.001 M $\Omega$	$\pm(1.5\% + 3)$	
	60.00 M $\Omega$	0.01 M $\Omega$		