



# Specification

## CM51A Clamp Meter



**Numeric Display:** 3 <sup>3/4</sup> digit, 4000 count LCD, maximum reading 4000, 12mm high.

**Unit & Symbols:** ~, A, DH, BAT, AUTO, APO & decimal point.

**Operating principle:** Dual Slope Integration.

**Range selection:** Autoranging.

**Overrange indication:** OL symbol is shown.

**Battery warning:** BAT symbol is shown.

**Sampling rate:** 2.5 times per second.

**Display hold:** Displays are held by DH key.

**Overload protection:** AC current; 400A AC (300V Line) for one minute.

**Operating temperature & humidity:** 0°C to 40°C, less than 80% RH.

**Storage temperature & humidity:** -10°C to 50°C, less than 70% RH.

**Temperature coefficient:** 0.1 x specified accuracy / °C for 0°C to 18°C & 28°C to 40°C.

**Dielectric strength:** 3.7kV AC for one minute (between case & metal parts).

**Safety:** EN 61010-1, EN 61010-2-032 Overvoltage Cat. III 300V, Class II.

**EMC:** EN 55022-1:01.92 & EN 55022:08.94 + A1:05.95 + A2:97

**Power consumption:** Approx. 5mW (100 hours continuous operation).

**Power supply:** One 3V CR2032 battery.

**Auto power off:** Power turns off automatically after 12 minutes.

**Conductor diameters:** Maximum 27mm

**Dimensions & weight:** 150 x 52 x 24mm, 110 grams.

### MEASUREMENT SPECIFICATIONS

#### AC Current (~A)

Average Rectification

Range	Resolution	Accuracy	Max. Input Current
40.00A	10mA	±1.8%rdg±5dgt	300A (Max. 300V)
300.0A	100mA		

Frequency Response: 50~60Hz. 0~0.4A add 5dgt

40Hz ~500Hz, add 1.5% to above accuracy.

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