



# 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 50082-1:01.92 & 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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