

# CM400 & CM450 400A AC and AC/DC True RMS Clamp Meters

**True RMS provides better accuracy when measuring non-sinusoidal or noisy waveforms**

## Features:

- Captures the instantaneous surge (inrush) current when power equipment is turned on
- 1.2" (30mm) clamp jaw
- Low Pass Filter (LPF) for filtering frequency and harmonic interference when measuring variable frequency drives
- Peak voltage measurement with Min/Max
- Built-in Non-Contact Voltage Detector with LED
- Data Hold freezes the display
- Relative Mode for making comparisons to a stored reference value
- Auto power off with disable
- Built-in flashlight
- Includes test leads, Type K thermocouple bead probe, 3 AAA batteries and carrying case
- 1-year warranty

## Model CM400:

- Measures 400A True RMS AC Current

## Model CM450:

- Measures 400A True RMS AC and DC Current
- DC Zero function

## Applications:

Typically when using a multimeter to measure current, you would have to "break the circuit" and place the meter in series with it, so that voltage and current would pass through it. A clamp meter allows you to easily measure current without breaking the circuit by clamping around a single conductor. This saves time and the circuit will not be damaged.

## Ordering Information:

- |            |  |
|------------|--|
| CM400      | 400A AC True RMS Clamp Meter                   |
| CM400-NIST | CM400 with Certificate of Traceability to NIST |
| CM450      | 400A AC/DC True RMS Clamp Meter                |
| CM450-NIST | CM450 with Certificate of Traceability to NIST |



CM400

CM450

|                       | CM400                                  | CM450                                  |
|-----------------------|--|--|
| True RMS              | √                                      | √                                      |
| Display counts        | 4000 count                             | 4000 count                             |
| AC Current            | 400A                                   | 400A                                   |
| ACA Accuracy          | ±2.5%                                  | ±2.5%                                  |
| DC Current            | —                                      | 400A                                   |
| AC/DC Voltage         | 1000V                                  | 1000V                                  |
| Resistance            | 40MΩ                                   | 40MΩ                                   |
| Temperature           | -4 to 1832°F (-20 to 1000°C)           | -4 to 1832°F (-20 to 1000°C)           |
| Capacitance           | 100mF                                  | 100mF                                  |
| Frequency             | 100kHz                                 | 100kHz                                 |
| Duty Cycle            | 20.0 to 80.0%                          | 20.0 to 80.0%                          |
| Continuity            | <50Ω                                   | <50Ω                                   |
| Low Pass Filter (LPF) | Yes                                    | Yes                                    |
| NCV Detector          | >90V                                   | >90V                                   |
| Inrush Current        | 100ms                                  | 100ms                                  |
| Safety Category       | CAT III-600V                           | CAT III-600V                           |
| Dimensions            | 8.8 x 3 x 1.6" (223.8 x 76.5 x 39.4mm) | 8.8 x 3 x 1.6" (223.8 x 76.5 x 39.4mm) |
| Weight                | 9.5oz (268.3g)                         | 9.8oz (277.4g)                         |

