

## 1000A - True RMS Industrial Clamp Meter

### *True RMS - Designed for Electricians, MRO & Industrial*



#### Functions

- True RMS
- 1000A AC / DC
- 1000V AC / DC
- Continuity
- Capacitance
- Frequency
- Diode test

#### Standards

- cETLus Listed and RoHS
- Conforms to IEC61010-2-032
- Rated: CAT IV 600V, CAT III 1000V

#### Features

- LRA Inrush current measurement
- Data hold
- MIN/MAX
- Relative / DC A Zero mode
- High contrast backlight display
- Auto / Manual ranging
- Magnetic mount
- Bar graph
- Auto power off
- 6' drop durability
- 2 Year limited warranty



**RoHS**  
Compliant

The DL419 is ideal for electricians, MRO & Industrial with the ability to measure AC and DC inductive amps, makes testing generators, compressor pump motors and power converters quick and easy. With its large diameter jaw and 1000V / 1000A range the durable DL419 will always be ready for the job.

## Includes



- DL419 True RMS Clamp Meter
- 2 Silicon Test leads
- 2 Alligator clips
- 2 AAA batteries
- Zippered case
- Instruction manual

## Specifications

### AC Volts Measurement

| Range | Resolution | Accuracy                         | Overload Protection |
|-------|------------|----------------------------------|---------------------|
| 400mV | 0.1mV      | $\pm (2.0\% + 5 \text{ digits})$ | 1000V RMS           |
| 4V    | 1mV        |                                  |                     |
| 40V   | 10mV       |                                  |                     |
| 400V  | 100mV      |                                  |                     |
| 1000V | 1V         |                                  |                     |

True RMS: 45Hz to 400Hz

### DC Volts Measurement

| Range | Resolution | Accuracy                          | Overload Protection |
|-------|------------|-----------------------------------|---------------------|
| 400mV | 0.1mV      | $\pm (0.5\% + 4 \text{ digits})$  | 1000V               |
| 4V    | 1mV        |                                   |                     |
| 40V   | 10mV       |                                   |                     |
| 400V  | 100mV      |                                   |                     |
| 1000V | 1V         | $\pm (0.8\% + 10 \text{ digits})$ |                     |

True RMS: 45Hz to 400Hz

### Resistance: < 40MΩ

| Range | Resolution | Accuracy            | Overload Protection |
|-------|------------|---------------------|---------------------|
| 400Ω  | 0.1Ω       | ± (1.0% + 4 digits) | 600V RMS            |
| 4kΩ   | 1Ω         |                     |                     |
| 40kΩ  | 10Ω        |                     |                     |
| 400kΩ | 100Ω       |                     |                     |
| 4MΩ   | 1kΩ        | ± (2.0% + 4 digits) |                     |
| 40MΩ  | 10kΩ       |                     |                     |

### Capacitance (MFD)

| Range   | Resolution | Accuracy                         | Overload Protection |
|---------|------------|----------------------------------|---------------------|
| 40.00nF | 0.01nF     | $\pm (3.5\% + 6 \text{ digits})$ | 600V RMS            |
| 400.0nF | 0.1nF      |                                  |                     |
| 4.000uF | 0.001μF    |                                  |                     |
| 40.00uF | 0.01μF     |                                  |                     |
| 400.0uF | 0.1μF      |                                  |                     |
| 2000uF  | 1μF        |                                  |                     |

### Continuity

| Overload Protection | Open Circuit Voltage |
|---------------------|----------------------|
| 600V RMS            | < 0.44V              |

Threshold Approx : < 40Ω

### DC Low Amps Measurement -Test lead input

| Range  | Resolution | Accuracy                         | Overload Protection |
|--------|------------|----------------------------------|---------------------|
| 400μA  | 0.1μA      | $\pm (1.2\% + 3 \text{ digits})$ | 2000μA / 600V RMS   |
| 2000μA | 1μA        |                                  |                     |

True RMS: 45Hz to 400Hz (Crest factor < 3 : 1)

### AC Low Amps Measurement -Test lead input

| Range  | Resolution | Accuracy                         | Overload Protection |
|--------|------------|----------------------------------|---------------------|
| 400μA  | 0.1μA      | $\pm (2.0\% + 5 \text{ digits})$ | 2000μA / 600V RMS   |
| 2000μA | 1μA        | $\pm (1.5\% + 5 \text{ digits})$ |                     |

True RMS: 45Hz to 400Hz (Crest factor < 3 : 1)

### Diode Test

| Overload Protection | Range | Test Current | Open Circuit Voltage |
|---------------------|-------|--------------|----------------------|
| 600V RMS            | 2.0V  | Appx. 0.25mA | < 1.6V DC            |

### DC Amps Measurement

| Range | Resolution | Accuracy                          | Overload Protection |
|-------|------------|-----------------------------------|---------------------|
| 40A   | 0.01A      | $\pm (2.5\% + 15 \text{ digits})$ | 1000V RMS           |
| 400A  | 0.1A       | $\pm (1.5\% + 8 \text{ digits})$  |                     |
| 1000A | 1A         | $\pm (1.5\% + 8 \text{ digits})$  |                     |

True RMS: 45Hz to 400Hz

### AC Amps Measurement

| Range | Resolution | Accuracy                          | Overload Protection |
|-------|------------|-----------------------------------|---------------------|
| 40A   | 0.01A      | $\pm (2.9\% + 15 \text{ digits})$ | 1000V RMS           |
| 400A  | 0.1A       | $\pm (1.9\% + 8 \text{ digits})$  |                     |
| 1000A | 1A         | $\pm (1.9\% + 8 \text{ digits})$  |                     |

True RMS: 45Hz to 400Hz