

# 1000A Clamp Meters with IR Thermometers

## Clamp-on multimeter with built-in non-contact InfraRed Thermometer

Ideal for industrial applications the 800 series Full size 1000A clamps feature a built-in Infrared thermometer and rugged double molded housing.

### EX800 Series Features:

- Non-contact InfraRed Temperature measurements with laser pointer
- Models with True RMS Current and Voltage measurements
- Peak hold captures inrush currents and Transients
- MultiMeter functions include AC/DC Voltage, Resistance, Capacitance, Frequency, Type K Temperature (EX820/EX830), Diode, and Continuity
- 1.7" (43mm) jaw opening for conductors up to 750MCM or two 500MCM
- 4000 count backlit display
- Features include Data Hold and Min/Max
- Autoranging with manual range button
- Auto Power off
- Complete with test leads, 9V battery, general purpose Type K probe (EX820/EX830), and case

### Model EX810

- AC Current
- Average responding

### Model EX820

- AC Current
- True RMS
- Type K thermometer

### Model EX830

- DC/ AC Current
- True RMS
- Type K thermometer
- DC Zero



**BUILT IN IR**  
Thermometer



True RMS meter gives you accurate readings of non-sinusoidal waveforms.



Built-in IR Thermometer with laser pointer is an excellent troubleshooter for locating hot spots and overheating motors.

Specifications	EX810	EX820	EX830	Basic Accuracy
IR Temperature (IR)	-58 to 518°F -50 to 270°C	-58 to 518°F -50 to 270°C	-58 to 518°F -50 to 270°C	±2.0% rdg or ±4°F/±2°C
AC Current	0.1 to 1000A	0.1 to 1000A	0.1 to 1000A	±2.8% (EX810); ±2.5% (EX820, EX830)
DC Current	—	—	0.1 to 1000A	±2.5%
AC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V	±1.8% (EX810); ±1.5% (EX820, EX830)
DC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V	±1.5%
Resistance	0.1 to 40MΩ	0.1 to 40MΩ	0.1 to 40MΩ	±1.5%
Capacitance	0.001nF to 40,000μF	0.001nF to 40,000μF	0.001nF to 40,000μF	±3.0%
Frequency	0.001kHz to 4kHz	0.001kHz to 4kHz	0.001kHz to 4kHz	±1.5%
Type K Temperature	—	-4 to 1400°F -20 to 760°C	-4 to 1400°F -20 to 760°C	±(3%rdg+9°F/5°C)
Continuity	Yes	Yes	Yes	
Inrush	Yes	Yes	Yes	
Diode	Yes	Yes	Yes	
Dimensions	0.6x4.3x2" (270x110x50mm)	10.6x4.3x2" (270x110x50mm)	10.6x4.3x2" (270x110x50mm)	
Weight	13.6oz (386g)	13.6oz (386g)	13.6oz (386g)	

### Ordering Information:

EX810 ..... 1000A AC Clamp/DMM+IR Thermometer  
EX810-NISTL\* ..... 1000A AC Clamp/DMM+IR Thermometer w/ Calibration Traceable to NIST  
EX820 ..... 1000A AC True RMS Clamp/DMM+IR Thermometer  
EX820-NISTL\* ..... 1000A AC True RMS Clamp/DMM+IR Thermometer w/ Calibration Traceable to NIST  
EX830 ..... 1000A AC/DC True RMS Clamp/DMM+IR Thermometer  
EX830-NISTL\* ..... 1000A AC/DC True RMS Clamp/DMM+IR Thermometer w/ Calibration Traceable to NIST

\*NISTL is a Limited NIST: Product is certified to all functions except IR Thermometer

