EXTECH INSTRUMENTS
A FLIR COMPANY

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PRODUCT DATASHEET

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 Infared 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, 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, Type K probe (-4 to 482°F/-20 to 250°C) for 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

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.

Complete with test leads, 9V battery, type K probe (EX820/EX830) and belt holster

BUILT IN IR Thermometer
Patented

EX800 SERIES

Specifications	EX810	EX820	EX830	Basic Accuracy
IR Temperature *(IR)*	✓ -58 to 518ºF -50 to 270ºC	✓ -58 to 518ºF -50 to 270ºC	✓ -58 to 518ºF -50 to 270ºC	✓ ±2.0% rdg or ±4ºF/±2ºC
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 1400ºF -20 to 760ºC	✓ -4 to 1400ºF -20 to 760ºC	±(3%rdg+9°F/5ºC)
Continuity	Yes	Yes	Yes	
Inrush	Yes	Yes	Yes	
Diode	Yes	Yes	Yes	
Dimensions	10.6x4.3x2" (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/NIST Cert.

EX820 ....1000A AC True RMS Clamp/DMM+IR Thermometer
EX820-NISTL* ....1000A AC True RMS Clamp/DMM+IR Thermometer w/NIST Cert.

EX830 ....1000A AC/DC True RMS Clamp/DMM+IR Thermometer
EX830-NISTL* ....1000A AC/DC True RMS Clamp/DMM+IR Thermometer w/NIST Cert.

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

EN 61010-1 CAT III 600V
1 YEAR WARRANTY

www.extech.com

Specifications subject to change without notice.
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