EXTECH®

Promelsa

PRODUCT DATASHEET

EX8xxA Series 1000 A Clamp Meters with IR Thermometer

Clamp meters with built-in non-contact infrared thermometer

The EX8xxA Series of CAT-IV 600 V True RMS clamp meters stand out with their built-in IR thermometer and laser pointer for non-contact temperature surface measurements. Packed with advanced features such as Low Impedance Mode (LoZ) to prevent false readings from ghost voltages, and a Low Pass Filter for precise measurement in electrically noisy equipment, these meters also include an inrush current feature to capture start-up current. The ergonomically designed double-molded housing offers a better grip for one-hand operation. Ideal for electricians, electrical contractors, and plant maintenance professionals.

EX8xxA Series Features

- Built-in IR thermometer for non-contact temperature measurements
- True RMS current and voltage measurements
- Peak hold captures inrush currents and transients
- CAT IV-600 V safety rating
- Multimeter functions include resistance, capacitance, frequency, Type K temperature, diode, and continuity
- 43 mm (1.7 in) jaw opening for conductors up to 750 MCM or two 500 MCM
- Low Pass Filter to ensure accurate readings in electrically noisy environments
- Low Impedance Mode (LoZ) to prevent false readings caused by ghost voltages
- 6000 count backlit LCD display
- Auto power off

Model EX820A

- AC Current
- True RMS

Model EX840A

- AC/DC Current
- True RMS
- Includes 8-piece industrial test lead kit, Type K bead wire, and 9 V battery

See next page for product specifications and ordering information

Built-in IR thermometer with laser pointer for locating hot spots and overheating motors.

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Model	EX820A	EX840A
Type	AC only	AC+DC
True RMS	True RMS	True RMS
Display Counts	6000	6000
Jaw Size	43 mm (1.7 in)	43 mm (1.7 in)
AC Current	0.1 A to 1000 A	0.1 A to 1000 A
DC Current	—	0.1 A to 1000 A
Basic ACA Accuracy	±(2.5% + 8d)	±(2.5% + 8d)
AC Voltage	0.1 mV to 1000 V	0.1 mV to 1000 V
DC Voltage	0.1 mV to1000 V	0.1 mV to 1000 V
Resistance	0.1 Ω to 60 M Ω	0.1 Ω to 60 M Ω
Capacitance	0.001 nF to 40 mF	0.001 nF to 40 mF
Frequency	0.001 Hz to 100 kHz	0.001 Hz to 100 kHz
Type K Temperature	-20°C to 760°C (-4°F to 1400°F)	-20°C to 760°C (-4°F to 1400°F)
Infrared Temperature	-50°C to 270°C (-58°F to 518°F)	-50°C to 270°C (-58°F to 518°F)
Distance to Spot Ratio	8:1	8:1
Peak Hold	Yes	Yes
Inrush	Yes	Yes
LoZ	Yes	Yes
Low Pass Filter	Yes	Yes
Safety Category	CAT IV-600 V	CAT IV-600 V
Operating Temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Dimensions	270 mm × 110 mm × 50 mm (10.5 in × 4.3 in × 2.0 in)	270 mm × 110 mm × 50 mm (10.5 in × 4.3 in × 2.0 in)
Weight	362 g (12.77 oz)	396 g (14 oz)
Warranty	2 years	2 years

Ordering

Ordering #	UPC Code	Description
EX820A	793950398227	1000A True RMS AC Clamp Meter with IR
EX820A-NIST	793950398234	1000A True RMS AC Clamp Meter with IR and NIST
EX820A-NISTL	793950398241	1000A AC Clamp Meter with IR and Limited NIST
EX840A	793950398425	1000A True RMS AC/DC Clamp Meter with IR
EX840A-NIST	193950398432	1000A True RMS AC/DC Clamp Meter with IR and NIST
EX840A-NISTL	793950398449	1000A AC/DC Clamp Meter with IR and Limited NIST

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