EXTECH®

PRODUCT DATASHEET

EX623A 600 A Dual Input Clamp Meter with IR Thermometer and NCV

Built-in dual thermocouple inputs for T1, T2, and T1-T2 differential temperature measurement
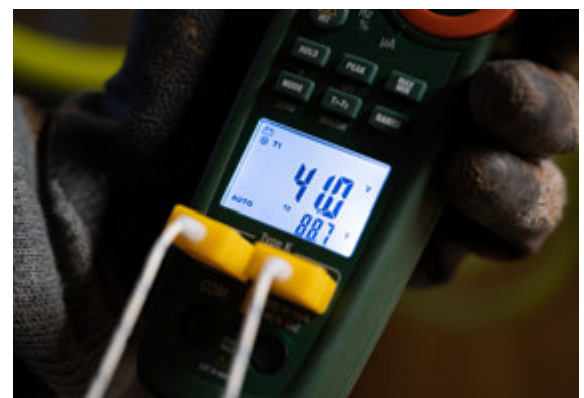
The EX623A True RMS AC/DC clamp meter combines dual thermocouple inputs for T1, T2, and T1-T2 differential temperature measurement with a built-in infrared thermometer and a laser pointer for pinpointing hot spots. The Non-Contact Voltage (NCV) detector adds a layer of safety, while the DC micro-amp function is ideal for flame rod measurements in HVAC systems, and its capacitance measurement capability extends up to 40 mF. Comes complete with test leads, 9 V battery, two Type K bead wire temperature probes, and carrying case.

EX623A Features

- True RMS for accurate measurements of AC voltage and current measures
- Combines the functionality of a 600 A AC/DC clamp meter with a built-in infrared thermometer
- Dual Type K thermometer with differential temperature function (T1, T2, T1-T2)
- Non-Contact Voltage (NCV) detection enhances safety while measuring electrical installations
- AC/DC µA multimeter function specifically designed for HVAC flame rod current measurements and capacitance measurement up to 40 mF
- Multimeter functions for DC voltage, resistance, capacitance, and frequency
- 32 mm (1.25 in) jaw opening for conductors up to 500 MCM
- LoZ mode prevents false readings due to ghost voltages
- Low Pass Filter (LPF) ensures accurate measurements in electrically noisy environments

- 6000 count backlit LCD display
- Rugged double molded housing
- Auto power off with audible alert and disable function
- Autoranging with manual override

See next page for product specifications and ordering information

Dual Type K thermometer for taking differential temperature readings needed for superheat measurements.

Model	EX623A
Type	AC+DC
True RMS	True RMS
Display Counts	6000
Jaw Size	32 mm (1.25 in)
AC Current	0.01 A to 600 A
DC Current	0.01 A to 600 A
Basic ACA Accuracy	±(1.5% + 5d)
AC Voltage	0.1 mV to 600 V
DC Voltage	0.1 mV to 600 V
µA Current	0.1 µA to 600 µA
Resistance	0.1 Ω to 60 M Ω
Capacitance	0.001 nF to 40 mF
Frequency (Clamp)	0.1 Hz to 400 Hz
Frequency	0.001 Hz to 100 kHz
Duty Cycle	0.5% to 99.0%
Type K Temperature	-50°C to 1000°C (-58°F to 1832°F)
Infrared Temperature	-50°C to 270°C (-58°F to 518°F)
Distance to Spot Ratio	8:1
NCV Detector	Yes
Peak Hold	Yes
Inrush (100 ms)	Yes
LoZ	Yes
Low Pass Filter	Yes
Safety Category	CAT III-600 V
Operating Temperature	0°C to 50°C (32°F to 122°F)
Dimensions	241 mm × 96 mm × 45 mm (9.4 in × 3.7 in × 1.74 in)
Weight	315 g (11.11 oz)
Warranty	2 years

Ordering

Ordering #	UPC Code	Description
EX623A	793950376256	600A AC/DC Clamp Meter with IR and Dual Type K
EX623A-NIST	793950376355	Clamp Meter with IR and Dual Type K with NIST
EX623A-NISTL	793950376362	Clamp Meter with IR and Limited NIST

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