EXTECH®

PRODUCT DATASHEET

EX5xxA Series Heavy Duty Industrial Multimeters

Drop proof to 2 m (6.5 ft)
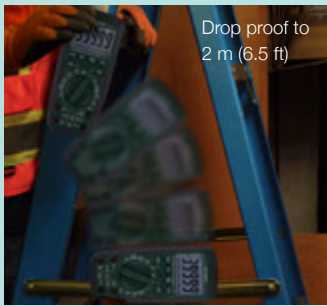
Waterproof and dustproof (IP67) rugged design for heavy duty use with CAT IV-600 V safety rating

The EX5xxA Series offers a range of high-performance True RMS industrial multimeters, each designed to meet specific needs in electrical testing. This series includes the EX505A, EX520A, and EX530A, all featuring a CAT IV-600 V safety rating and an IP67 waterproof and dustproof rating, making them ideal for demanding work environments. All models in the EX5xxA Series come with double-molded test leads, a 9 V battery, magnetic hanging strap, temperature probe, carrying case, and a 3-year warranty. They are designed for electricians, HVAC technicians, and benchtop technicians who require accuracy, durability, and safety in their electrical testing equipment.

EX5xxA Series Features

- True RMS for reliable measurements on non-sine wave forms
- CAT IV-600 V electrical safety rating
- Input protection 1000 V input protection on all functions
- Measure up to 1000 V AC V/DC V plus AC A, DC A, resistance, capacitance, frequency, duty cycle, temperature, diode, and continuity
- Double-molded test leads included
- Waterproof and dustproof (IP67-rating)
- 2 m (6.5 ft) drop-tested
- Comes complete with test leads, magnetic hanging strap, Type K bead wire temperature probe, carrying case, and 9 V battery

Model EX505A

- 6,000 count
- 0.09% accuracy
- 10 A max current

Model EX520A

- 6,000 count
- 0.09% accuracy

- 20 A max current
- Low Pass Filter
- LoZ function

Model EX530A

- 50,000 count – high resolution
- 0.06% accuracy
- 20 A max current
- Low Pass Filter
- LoZ function

See next page for product specifications and ordering information

Double molded for rugged waterproof (IP67) protection

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Model	EX505A	EX520A	EX530A
True RMS	True RMS	True RMS	True RMS
Display Counts	6000	6000	50000
Basic Accuracy	±0.5%	±0.09%	±0.06%
DC Voltage	0.01 mV to 1000 V	0.1 mV to 1000 V	0.01 mV to 1000 V
AC Voltage	0.01 mV to 1000 V	1 mV to 1000 V	0.01 mV to 1000 V
DC Current	0.1 µA to 10 A	0.1 µA to 10 A	0.01 µA to 10 A
AC Current	0.1 µA to 10 A	0.1 µA to 10 A	0.01 µA to 10 A
Resistance	0.1 Ω to 60 MΩ	0.1 Ω to 40 MΩ	0.01 Ω to 50 MΩ
Capacitance	0.01 nF to 99.99 mF	0.01 nF to 99.99 mF	0.01 nF to 99.99 mF
Frequency (Electrical)	0.001 Hz to 10 MHz	0.001 Hz to 10 MHz	0.001 Hz to 10 MHz
Frequency (Electronic)	0.01 Hz to 1 kHz	0.01 Hz to 1 kHz	0.001 Hz to 1 kHz
Type K Temperature	-20°C to 760°C (-4°F to 1400°F)	-45°C to 760°C (-50°F to 1400°F)	-45°C to 760°C (-50°F to 1400°F)
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.90%
Diode / Continuity	Yes	Yes	Yes
LoZ	—	Yes	Yes
Low Pass Filter	—	Yes	Yes
Backlight	Yes	Yes	Yes
Bar Graph	—	Yes	Yes
Range	Yes	Yes	Yes
Relative	Yes	Yes	Yes
Auto Power Off	Yes	Yes	Yes
Waterproof	IP67	IP67	IP67
Drop Proof	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)
Safety Category	CAT IV-600 V	CAT IV-600 V	CAT IV-600 V
Operating temp	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Dimensions	183 mm × 83 mm × 55 mm (7.1 in × 3.2 in × 2.1 in)	183 mm × 83 mm × 55 mm (7.1 in × 3.2 in × 2.1 in)	183 mm × 83 mm × 55 mm (7.1 in × 3.2 in × 2.1 in)
Weight	365 g (12.9 oz)	375 g (13.2 oz)	380 g (13.4 oz)
Warranty	3 years	3 years	3 years

Ordering

Ordering #	UPC Code	Description
EX505A	793950395066	Heavy Duty True RMS Multimeter (6000 count)
EX505A-NIST	793950395073	Heavy Duty Multimeter (6000 count) with NIST
EX520A	793950395233	High accuracy True RMS Multimeter (0.09%)
EX520A-NIST	793950395240	High accuracy Multimeter (0.09%) with NIST
EX530A	793950395332	Heavy Duty True RMS Multimeter (50000 count)
EX530A-NIST	793950395349	Heavy Duty Multimeter (50000 count) with NIST
EX505A-K	793950325063	Heavy Duty Industrial Multimeter Kit