



# **Heavy Duty Industrial MultiMeters**

Waterproof (IP67) rugged design for heavy duty use With CAT IV-600V safety rating for industrial applications

#### **Common Features:**

- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Large backlit LCD
- Diode open circuit voltage of 2.8V DC
- · Auto power off with disable feature
- Complete with double molded test leads, magnetic hanging strap, Type K bead wire temperature probe (EX505, EX520 and EX530), carrying case, and one 9V battery



Double molded for rugged, waterproof (IP67) protection

Drop-proof to 6 feet (2.9m)

#### Models: EX503, EX505 (True RMS)

- 4,000 count
- 0.5% accuracy
- Data Hold and Relative
- 10A max current

### Models: EX510, EX520 (True RMS)

- 6000 count-high resolution
- 0.09% accuracy
- Min/Max/Relative/Data Hold
- 20A max current

#### **Model EX530 (True RMS)**

- 40,000 count—highest resolution
- 0.06% accuracy
- Min/Max/Relative/Data Hold
- 20A max current
- Peak Hold (AC only)



Specifications   EX503   EX505   EX510   EX520   EX530		1111	TO THE PARTY OF TH	- and a later late	-latelitethistefetek	College
Display Counts   4,000 count   4,000 count   6,000 count   6,000 count   6,000 count   40,000 count   40,00	EX500		a co			
Averaging/True RMS         Averaging         ✓ True RMS         Averaging         ✓ True RMS         ✓ True RMS           Basic Accuracy         0.5%         0.5%         0.09%         0.09%         ✓ 0.06%           DC/AC Voltage         0.1mV to 1000VDC         0.1mV to 1000VDC         0.1mV to 1000VDC         0.1mV to 1000VDC           0.1mV to 1000VAC         0.1mV to 1000VAC         1mV to 1000VAC         1mV to 1000VAC         0.01mV to 1000VAC           DC/AC Current         0.1µA to 10A         0.1µA to 20A         0.1µA to 20A         0.01µA to 20A         0.01µA to 20A           Resistance         0.1Ω to 40MΩ         0.1Ω to 40MΩ         0.1Ω to 60MΩ         0.1Ω to 60MΩ         0.01Ω to 40MΩ           Capacitance         0.01nF to 100µF         0.01nF to 100µF         —         0.01nF to 1000µF         0.001nF to 40mF           Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         40Hz to 400Hz           Temperature         —         ✓ -4 to 1382°F         —         ✓ -50 to 1382°F         ✓ -50 to 1382°F	Specifications	EX503	EX505	EX510	EX520	EX530
Basic Accuracy         0.5%         0.5%         0.09%         0.09%         ✓ 0.06%           DC/AC Voltage         0.1mV to 1000VDC         0.1mV to 1000VDC         0.1mV to 1000VDC         0.1mV to 1000VAC         0.01mV to 1000VAC           DC/AC Current         0.1µX to 10A         0.1µX to 10A         0.1µX to 20A         0.1µX to 20A         0.01µX to 20A           Resistance         0.1Ω to 40MΩ         0.1Ω to 40MΩ         0.1Ω to 60MΩ         0.1Ω to 60MΩ         0.01µΣ to 40MΩ           Capacitance         0.01nF to 100µF         0.01nF to 100µF         —         0.01nF to 1000µF         0.001nF to 40mF           Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         4Hz to 400Hz         4Uz to 400Hz         0.001Hz to 100MHz         0.001Hz t	Display Counts	4,000 count	4,000 count	6,000 count	6,000 count	✓ 40,000 count
DC/AC Voltage         0.1mV to 1000VDC 0.1mV to 1000VAC         0.1mV to 1000VDC 0.1mV to 1000VAC         0.1mV to 1000VDC 1mV to 1000VAC         0.1mV to 1000VDC 1mV to 1000VAC         0.01mV to 1000VDC 1mV to 1000VAC         0.01mV to 1000VDC 0.01mV to 1000VAC           DC/AC Current         0.1µA to 10A         0.1µA to 10A         0.1µA to 20A         0.1µA to 20A         0.01µA to 20A           Resistance         0.1Ω to 40MΩ         0.1Ω to 60MΩ         0.1Ω to 60MΩ         0.01Ω to 40MΩ           Capacitance         0.01nF to 100µF         0.01nF to 100µF         0.01nF to 1000µF         0.001nF to 400Hz           Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         40Hz to 400Hz           Frequency (electronic)         0.001Hz to 10 MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 10 MHz         0.001Hz to 100MHz           Temperature         —         ✓ -4 to 1382°F         —         ✓ -50 to 1382°F         ✓ -50 to 1382°F	Averaging/True RMS	Averaging <	True RMS	Averaging	True RMS	✓ True RMS
0.1mV to 1000VAC   0.1mV to 1000VAC   1mV to 1000VAC   1mV to 1000VAC   1mV to 1000VAC   0.01mV to 100MΩ   0.1mV to 40MΩ   0.1mV to 40MΩ   0.1mV to 40MΩ   0.01mV to 1000µF   0.001mF to 100µF   0.001mF to 100µF   0.001mF to 100µF   0.001mF to 40mF   0.001mF to 10mV t	Basic Accuracy	0.5%	0.5%	0.09%	0.09%	<b>✓</b> 0.06%
DC/AC Current         0.1μA to 10A         0.1μA to 20A         0.1μA to 20A         0.01μA to 20A           Resistance         0.1Ω to 40MΩ         0.1Ω to 40MΩ         0.1Ω to 60MΩ         0.1Ω to 60MΩ         0.1Ω to 60MΩ           Capacitance         0.01nF to 100μF         -         0.01nF to 1000μF         0.001nF to 40mF           Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         40Hz to 400Hz           Frequency (electronic)         0.001Hz to 10 MHz         0.001Hz to 40 MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 100MHz           Temperature         -         ✓ -4 to 1382°F         -         ✓ -50 to 1382°F         ✓ -50 to 1382°F	DC/AC Voltage	0.1mV to 1000VDC	0.1mV to 1000VDC	0.1mV to 1000VDC	0.1mV to 1000VDC	0.01mV to 1000VDC
Resistance $0.1Ω$ to $40MΩ$ $0.1Ω$ to $40MΩ$ $0.1Ω$ to $40MΩ$ $0.1Ω$ to $40MΩ$ $0.01Ω$ to $40MΩ$ $0.01Ω$ to $40MΩ$ Capacitance $0.01π$ Fo $100µF$ $0.01π$ Fo $100µF$ $0.01π$ Fo $1000µF$ $0.001π$ Fo $1000µF$ $0.001π$ Fo $1000µF$ Frequency (electricial)         5Hz to $1kHz$ 5Hz to $1kHz$ $10Hz$ to $400Hz$ $10Hz$ to $400Hz$ $40Hz$ to $400Hz$ Frequency (electronic) $0.001Hz$ to $100MHz$ $0.001Hz$ to $100MHz$ $0.001Hz$ to $400MHz$ $0.001Hz$ to $400MHz$ $0.001Hz$ to $400MHz$ Temperature $  -$		0.1mV to 1000VAC	0.1mV to 1000VAC	1mV to 1000VAC	1mV to 1000VAC	0.01mV to 1000VAC
Capacitance         0.01nF to 100μF         0.01nF to 100μF         −         0.01nF to 1000μF         0.001nF to 40mF           Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         40Hz to 400Hz           Frequency (electronic)         0.001Hz to 10 MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 40MHz           Temperature         −         ✓ -4 to 1382°F         −         ✓ -50 to 1382°F         ✓ -50 to 1382°F	DC/AC Current	0.1μA to 10A	0.1μA to 10A	0.1μA to 20A	0.1μA to 20A	0.01μA to 20A
Frequency (electrical)         5Hz to 1kHz         5Hz to 1kHz         10Hz to 400Hz         10Hz to 400Hz         40Hz to 400Hz           Frequency (electronic)         0.001Hz to 10 MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 100MHz           Temperature         —         ✓ -4 to 1382°F         —         ✓ -50 to 1382°F         ✓ -50 to 1382°F	Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ	$0.1\Omega$ to $60M\Omega$	$0.1\Omega$ to $60M\Omega$	$0.01\Omega$ to $40M\Omega$
Frequency (electronic)         0.001Hz to 10 MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 40MHz         0.001Hz to 100MHz           Temperature         —         ✓ -4 to 1382°F         —         ✓ -50 to 1382°F         ✓ -50 to 1382°F         ✓ -50 to 1382°F	Capacitance	0.01nF to 100μF	0.01nF to 100μF	_	0.01nF to 1000μF	0.001nF to 40mF
Temperature — ✓-4 to 1382°F — ✓-50 to 1382°F ✓-50 to 1382°F	Frequency (electrical)	5Hz to 1kHz	5Hz to 1kHz	10Hz to 400Hz	10Hz to 400Hz	40Hz to 400Hz
	Frequency (electronic)	0.001Hz to 10 MHz	0.001Hz to 10 MHz	0.001Hz to 40MHz	0.001Hz to 40MHz	0.001Hz to 100MHz
(-20 to 750°C) (-45 to 750°C) (-45 to 750°C)	Temperature	<del>-</del>	/-4 to 1382°F		′ -50 to 1382°F	√ -50 to 1382°F
			(-20 to 750°C)		(-45 to 750°C)	(-45 to 750°C)
Duty Cycle 0.1 to 99.9%	Duty Cycle	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.90%
Diode/Continuity Yes Yes Yes Yes Yes Yes	Diode/Continuity	Yes	Yes	Yes	Yes	Yes
Dimensions 7.25x3.25x2.25"(184x83x57mm) 7.25x	Dimensions	7.25x3.25x2.25"(184x83x57mm)	7.25x3.25x2.25"(184x83x57mm)	7.25x3.25x2.25"(184x83x57mm)	7.25x3.25x2.25"(184x83x57mm)	7.25x3.25x2.25"(184x83x57mm)
Weight 12.3oz (349g) 12.3oz (349g) 12.3oz (349g) 12.3oz (349g) 12.3oz (349g) 12.3oz (349g)	Weight	12.3oz (349g)	12.3oz (349g)	12.3oz (349g)	12.3oz (349g)	12.3oz (349g)

## **Ordering Information**

Industrial MultiMeter (4000 count)
EX503 MultiMeter w/ Calibration Traceable to NIST.
True RMS Industrial MultiMeter (4000 count)
EX505 MultiMeter w/ Calibration Traceable to NIST.
True RMS Industrial MultiMeter (6000 count)
EX520 MultiMeter w/ Calibration Traceable to NIST.
True RMS Industrial MultiMeter (40,000 count)
EX530 MultiMeter w/ Calibration Traceable to NIST.

## **Accessories**

TL810	Electrical Test Lead Kit
TP200	Type K Clamp Probe (212°F/100°C)
HG500	Magnetic Hanging Strap









