EXTECH INSTRUMENTS
A FLIR COMPANY

Experience the Extech Advantage

PRODUCT DATASHEET

Extech 400 Series MultiMeters

BUILT IN IR Thermometer
Patented

Rugged design with built-in IR Thermometer

Extech 400 Series Multimeters are available with or without the built-in InfraRed thermometer, select auto or manual ranging, True RMS or averaging, and choose the meter you want at a price you can afford.



Common Features:

- Large backlit LCD display with easy-to-read 1" digits
- Type K thermometer built-in for temperature measurements
- Low current capability: measure down to 0.1µA
- Input fuse protection and mis-connection warnings
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, bead wire temperature probe (-22 to 572°F/-30 to 300°C), and 9V battery

Model EX410/EX411

- True RMS (EX411)
- Manual Ranging

Model EX420/EX430

- True RMS (EX430)
- Autoranging
- Capacitance
- Frequency

Model EX450

- Built-in IR Thermometer
- Autoranging

Model EX470

- Built-in IR Thermometer
- True RMS
- Autoranging
- Capacitance
- Frequency
- Relative function



Built-In IR Thermometer
EX450 and EX470 models offer built-in InfraRed Thermometer

EX400 SERIES








Specifications	EX410	EX411	EX420	EX430	EX450	EX470
Temperature *(IR)*	—	—	—	—	✓ -58 to 518°F (-50 to 270°C)	✓ -58 to 518°F (-50 to 270°C)
Averaging/True RMS	Averaging	✓ True RMS	Averaging	✓ True RMS	Averaging	✓ True RMS
Basic Accuracy (VDC)	±0.5%	±0.3%	±0.3%	±0.3%	±0.5%	±0.3%
AC Voltage	1mV to 750V	1mV to 750V	0.1mV to 750V	0.1mV to 750V	1mV to 750V	0.1mV to 750V
DC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
AC Current	0.1mA to 20A	0.1mA to 20A	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A
DC Current	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A
Resistance	0.1Ω to 20MΩ	0.1Ω to 20MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 20MΩ	0.1Ω to 40MΩ
Capacitance	—	—	✓ 0.01nF to 100µF	✓ 0.01nF to 100µF	—	✓ 0.01nF to 100µF
Frequency	—	—	✓ 0.001Hz to 10MHz	✓ 0.001Hz to 10MHz	—	✓ 0.001Hz to 10MHz
Temperature (Type K)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	—	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	—	✓ 0.1% to 99.9%	✓ 0.1% to 99.9%	—	0.1% to 99.9%
Continuity / Diode	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions	7.4x3.2x2"(187x81x50mm)	7.4x3.2x2"(187x81x50mm)	7.4x3.2x2"(187x81x50mm)	7.4x3.2x2"(187x81x50mm)	7.4x3.2x2"(187x81x50mm)	7.4x3.2x2"(187x81x50mm)
Weight	0.75lbs (342g)	0.75lbs (342g)	0.75lbs (342g)	0.75lbs (342g)	0.75lbs (342g)	0.75lbs (342g)
Warranty	1 year	1 year	1 year	✓ 3 years	✓ 3 years	✓ 3 years

Ordering Information

EX410 .....Manual Ranging MultiMeter
EX410-NIST.....EX410 MultiMeter w/ NIST Certificate
EX411 .....True RMS Manual Ranging MultiMeter
EX411-NIST.....EX411 MultiMeter w/ NIST Certificate
EX420 .....Autoranging MultiMeter
EX420-NIST.....EX420 MultiMeter w/ NIST Certificate
EX430 .....True RMS Autoranging MultiMeter
EX430-NIST.....EX430 MultiMeter w/ NIST Certificate
EX450 .....Autoranging MultiMeter + IR Thermometer
EX450-NISTL....EX450 MultiMeter w/ NIST Certificate
EX470 .....True RMS Autoranging MultiMeter + IR Thermometer
EX470-NISTL....EX470 MultiMeter w/ NIST Certificate

Accessories

CA500 .....Case with shoulder strap and side pockets
TP873 .....Replacement Bead wire Temperature Probe
HG500 .....Magnetic Hanging Strap

c UL us LISTED CE EN 61010-1 CAT III 600V EN 61010-1 CAT II 1000V

Specifications subject to change without notice.
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