



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Extech 400 Series MultiMeters

## 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.

**BUILT IN IR**  
**Thermometer**   
Patented

### 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, and 9V battery

### Model EX410/EX411

- True RMS (EX411)
- Manual Ranging

### Model EX420/EX430

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

### 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
<b>Temperature (IR)</b>	—	—	—	—	✓ -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%	±0.3%	±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/ Calibration Traceable to NIST.  
 EX411 .....True RMS Manual Ranging MultiMeter  
 EX411-NIST .....EX411 MultiMeter w/ Calibration Traceable to NIST.  
 EX420 .....Autoranging MultiMeter  
 EX420-NIST .....EX420 MultiMeter w/ Calibration Traceable to NIST.  
 EX430 .....True RMS Autoranging MultiMeter  
 EX430-NIST .....EX430 MultiMeter w/ Calibration Traceable to NIST.  
 EX470 .....True RMS Autoranging MultiMeter + IR Thermometer  
 EX470-NIST\* .....True RMS Autoranging MultiMeter + IR Thermometer w/NIST

## Accessories

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

\*NIST-Limited NIST for Certificate of Traceability to all functions except IR Thermometer

