

# Multimeter Selection Guide



MULTIMETER SELECTION GUIDE	310 Series		340 Series		360	480 Series		490 Series		600	610 Series	
	61-310	61-312	61-340	61-342	61-361	61-484	61-486	61-497	61-498	61-605	61-610	61-614
<b>MEASUREMENT FUNCTIONS</b>												
AC & DC Voltage	•	•	•	•	•	•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•	•			
DC Current	•	•	•	•	•	•	•	•	•		•	•
Resistance	•	•	•	•	•	•	•	•	•	•	•	•
LV Resistance						•	•	•	•			
Audible Continuity	•	•	•	•	•	•	•	•	•	•		•
Diode Test	•	•	•	•	•	•	•	•	•	•		
Capacitance		•	•	•	•	•	•	•	•			
Frequency		•	•	•	•	•	•	•	•			
Temperature	•	•	•	•			•	•	•			
Duty Factor			•	•				•	•			
Battery Test	•										•	•
Decibels								•	•			
Phase Rotation					•							
<b>FEATURES</b>												
Display Type (Digital or Analog)	D	D	D	D	D	D	D	D	D	D	A	A
True RMS				•	•	•	•	•	•			
Auto/Manual Ranging		•	•	•		•	•	•	•	•		
Non-Contact Voltage Detection						•	•					
Data Hold / Auto Hold	D	D	D	D		D	D	A	A	D		
Min/Max			•	•		•	•	•	•			
Min/Max/Avg			•	•		•	•	•	•			
Peak Min/Max						•	•	•	•			
Relative Mode								•	•			
High Speed Analog Bar Graph							•	•	•	•	•	•
Auto Power Off			•	•	•	•	•	•	•	•		
Backlight			•	•		•	•	•	•	•		
Low Battery Indication			•	•	•	•	•	•	•	•		
Dual Display								•	•	•		
Overload Protection on all Ranges	•	•	•	•	•	•	•	•	•	•		
Data Logging								•	•			
Data Acquisition								•	•			
Memory Storage & Recall								•	•			
Optical USB Interface								•	•			
ProVision™ II Software								•	•			
Warranty (years)	2	2	2	2	2	2	2	2	2	2	2	2
<b>CERTIFICATIONS</b>												
UL 61010 Listed  US	•	•	•	•	•	•	•	•	•	•	•	•
CAT Rating	II	II	III	III	III	IV	IV	IV	IV	II	II	II
CE	•	•	•	•	•	•	•	•	•	•	•	•

## 490 Series Industrial-Grade Multimeters

- True RMS
- Data acquisition, data logging & data storage
- Auto AC/DC voltage and current mode w/ frequency indication
- High voltage indicator
- Frequency
- Temperature
- High frequency rejection mode\*
- Auto selection for resistance/continuity/diode/capacitance
- Auto hold, peak hold
- dBm/dB measurement
- Relative mode
- Min/Max/Avg
- Dual display
- Duty factor
- Auto power off
- Auto sensing backlight
- Low battery indicator
- USB cable and software included
- 2-year warranty

\*Reads accurately on noisy electrical circuits.



### Specifications

Description	Cat. No.
Digital Multimeter, 0.015% DCV Accuracy	<b>61-498</b>
Digital Multimeter, 0.03% DCV Accuracy	<b>61-497</b>

### Accessories

Includes	
Test Leads w/Alligator Clips	<b>TL-497</b>
Magnetic Strap	<b>61-565</b>
USB Cable	<b>61-902</b>
ProVision™ II Software	<b>61-906</b>
K-Type Thermocouple	<b>61-461</b>
Thermocouple Adapter	<b>61-465</b>
Carrying Case	<b>C-230</b>

	Range & Resolution		Accuracy	
	61-497	61-498	61-497	61-498
AC Voltage	40.000m/400.00m/ 4.0000/40.000/400.00/1000.0 V	100.000m/1000.00m/ 10.0000/100.000/1000.00V	±0.7%	±0.40%
DC Voltage	40.000m/400.00m/ 4.0000/40.000/400.00/1000.0 V	100.000m/1000.00m/ 10.0000/100.000/1000.00V	±0.03%	±0.015%
AC Current	40.000m/400.00m/10.000 A	10.0000m/100.000m/10.0000A	±0.8%	±0.7%
DC Current	40.000m/400.00m/10.000 A	10.0000m/100.000m/10.0000A	±0.2%	±0.1%
Resistance	400.00/4.0000k/40.000k/400.00k/ 4.0000M/40.000M Ω	1000.00/10.0000k/100.000k/1000.00k 10.0000M/40.000M Ω	0.6%	
Capacitance	4.000n/40.00n/400.0n/4.000μ/	40.00μ/400.0μ/4.000m/40.00mF	0.9%	
Diode Test	2.000 V	0.400 V - 0.800 V	±1.5%	
Frequency	40.000/400.00/4.0000k/40.000k/400.00k/4.0000M Hz		±0.002%	
Duty Factor	20% - 80%		±0.1%	
Temperature	-328° F to 2192° F (-200° C TO 1200° C)		±1.0% +2° F/1° C	

## 480 Series Commercial-Grade Multimeters

- True RMS
- Auto AC/DC voltage detect w/low impedance (Auto - VLoZ)
- Capacitance
- Frequency
- Analog bar graph
- Min/max
- Non-contact voltage detection
- Low battery indication
- Auto power off
- 2-year warranty



61-486



### Specifications

Description	Cat. No.
Digital Multimeter w/peak hold, temperature, includes thermocouple	<b>61-486</b>
Digital Multimeter	<b>61-484</b>

Include: Test Leads & Carrying Case.

	Range & Resolution		Accuracy	
	61-484	61-486	61-484	61-486
AC Voltage	6.000/60.00/600.0/1000.0 V		1.0%	0.80%
AC mV	600.0 mV		1.5%	1.2%
DC Voltage	6.000/60.00/600.0/1000.0 V		0.1%	0.08%
DC mV	600.0 mV	60.00/600.0 mV		
AC Current	60.00m/600.0m/6.000/10.00A		1.5%	1.2%
DC Current	60.00m/600.0m/6.000/10.00A		1.0%	0.80%
Resistance	600.0/6.000k/60.00k/600.0k/6.000M/40.00M Ω		1.0%	0.80%
Capacitance	1nF to 10.mF		0.1%	
Frequency	99.9 to 100.0k Hz		0.1%	
Temperature	-40°F to 752°F (-40°C to 400°C)		1.0%	

# 361 Contractor-Grade Multimeter

- Phase rotation
- Capacitance
- Frequency
- Voltage
- Current
- Resistance
- Audible continuity
- Manual ranging
- Rugged construction
- Auto power off
- Low battery indication
- 2-year warranty



### Specifications

	Range & Resolution	Accuracy
AC Voltage	200.0m/2000m/200.0/600 V	2.0%
DC Voltage	200.0m/2000m/20.00/200.0/600 V	1.2%
AC Current	2.000 A	3.0%
DC Current	2.000 A	2.5%
Resistance	200.0/2.000k/20.00k/200.0k/20.00M/200.0M Ω	1.0%
Capacitance	20.00μ/200.0μ/2.000m/20.00m F	4.0%
Frequency	10.0-100.0k Hz	0.5%
Phase Rotation	80-500V (50-500Hz)	—

Description	Cat. No.
361 Multimeter w/TRMS	<b>61-361</b>

Includes: Test Leads.

# 340 Series Test-Pro® Multimeters

- Capacitance
- Frequency
- Temperature
- Voltage
- Current
- Resistance
- Audible continuity
- Relative mode
- Backlight
- Min/max
- Data hold
- Low battery indicator
- Auto power off
- 2-year warranty

61-342



61-340



Description	Cat. No.
Test-Pro® Multimeter w/TRMS	<b>61-342</b>
Test-Pro® Multimeter	<b>61-340</b>

Includes: Test Leads and Thermocouple.

### Specifications

	Range & Resolution	Accuracy
AC Voltage	4.000/40.00/400.0/600 V	1.5%
DC Voltage	400.0m/4.000/40.00/400.0/600 V	0.5%
Current	400.0μ/4000μ/40.00m/400.0m/4.000/10.00A AC/DC	1.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%
Capacitance	40.00n/400.0n/4.000μ/ 40.00μ/400.0μ F	3.0%
Frequency	10.000/100.00/1.000k/10.00k/100.0k/1.000M/4.000M Hz	0.3%
Temperature	-4° F to 1382° F (-20° C to 750° C)	3.0%

## 310 Series Residential Meters

- Voltage
- Current
- Resistance
- Audible continuity
- Temperature
- Data hold
- Diode test
- Large numbers displayed
- 2-year warranty



Description	Cat. No.
Resi-Pro™ Meter w/Auto Ranging, AC/DC Current, Capacitance, Frequency, Auto Power Off, Low Battery Indication	<b>61-312</b>
Resi-Pro™ Meter w/Manual Ranging, Tests Batteries	<b>61-310</b>

Includes: Test Leads and Thermocouple.

### Specifications

	61-310		61-312	
	Range & Resolution	Accuracy	Range & Resolution	Accuracy
AC Voltage	200.0/300 V	1.2%	4.000/40.00/400.0/300 V	1.2%
DC Voltage	200.0m/2.000/20.00/200.0/300 V	0.5%	400.0m/4.000/40.00/400.0/300 V	0.5%
Current	200.0m/10.00 ADC	1.5%	400.0μ/4000μ/40.00m/400.0m/10.00A AC/DC	1.5%
Resistance	200.0/2.000k/20.00k/200.0k/20.00M Ω	1.0%	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%
Capacitance	—	—	40.00n/400.0n/4.000μ/40.00μ/400.0μ F	3.0%
Frequency	—	—	10.00/100.0/1.000k/10.00k/100.0k/1.000M/10.00M Hz	0.3%
Temperature	-4-1382°F (-20-750°C)	2.5%	-4-1382°F (-20-750°C)	2.5%

## Pocket Meter

- Convenient pocket size
- Built-in lead storage and test stand
- Audible continuity
- Auto power off
- Test lead storage
- 2-year warranty



Description	Cat. No.
Pocket Meter	<b>61-605</b>

Includes: Test Leads.

### Specifications

	Range & Resolution		Accuracy
	61-610	61-614	
AC Voltage	200.0m/2.000/20.00/200.0/600 V	10/50/250/500 V	+/- 4.0% Full Scale
DC Voltage	200.0m/2.000/20.00/200.0/600 V	2.5/10/50/250/1000 V	+/- 3.0% Full Scale
Resistance	200.0/2.000k/20.00k/200.0k/2.000M/20.00M Ω	5m/50m/500m/20A	+/- 3.0% Full Scale



## Analog Meters

- Multi-color analog display with mirrored scale
- High-impact thermoplastic case
- Battery test
- 2-year warranty



Description	Cat. No.
Analog Multimeter w/Audible Continuity, built-in stand	<b>61-614</b>
Analog Multimeter (pocket-size)	<b>61-610</b>

Includes: Test Leads.

### Specifications

	Range & Resolution		Accuracy
	61-610	61-614	
AC Voltage	10/50/250/500 V	10/50/250/1000 V	+/- 4.0% Full Scale
DC Voltage	10/50/250/500 V	2.5/10/50/250/1000 V	+/- 3.0% Full Scale
DC Current	500μ/50m/250mA	5m/50m/500m/20A	+/- 3.0% Full Scale
Resistance	1 M Ω Full Scale 5 k Ω Mid Scale	10k/100k/10M Ω Full Scale 50/500/50k Ω Mid Scale	+/- 3.0% Arc Length
Decibels	-20 to +56 dB	-8 to +62 dB	—
Battery Test	1.5, 9.0 VDC	1.5, 9.0 VDC	—

