

# TEST & MEASUREMENT

## CATALOGUE



THE ELECTRICIAN'S  
**CHAMPION**™



For over 90 years, IDEAL INDUSTRIES, INC. has been enhancing the productivity and safety of electricians who test, measure, or troubleshoot electrical systems. In 2021 we released a new line of testers with the professional electrician in mind. See our new additions in this catalog.

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Scan with your  
smartphone to see a  
video and learn more

# SURETRACE™

## CIRCUIT TRACER

Your IDEAL troubleshooting solution. Designed to **find everything**, while saving you time and money.

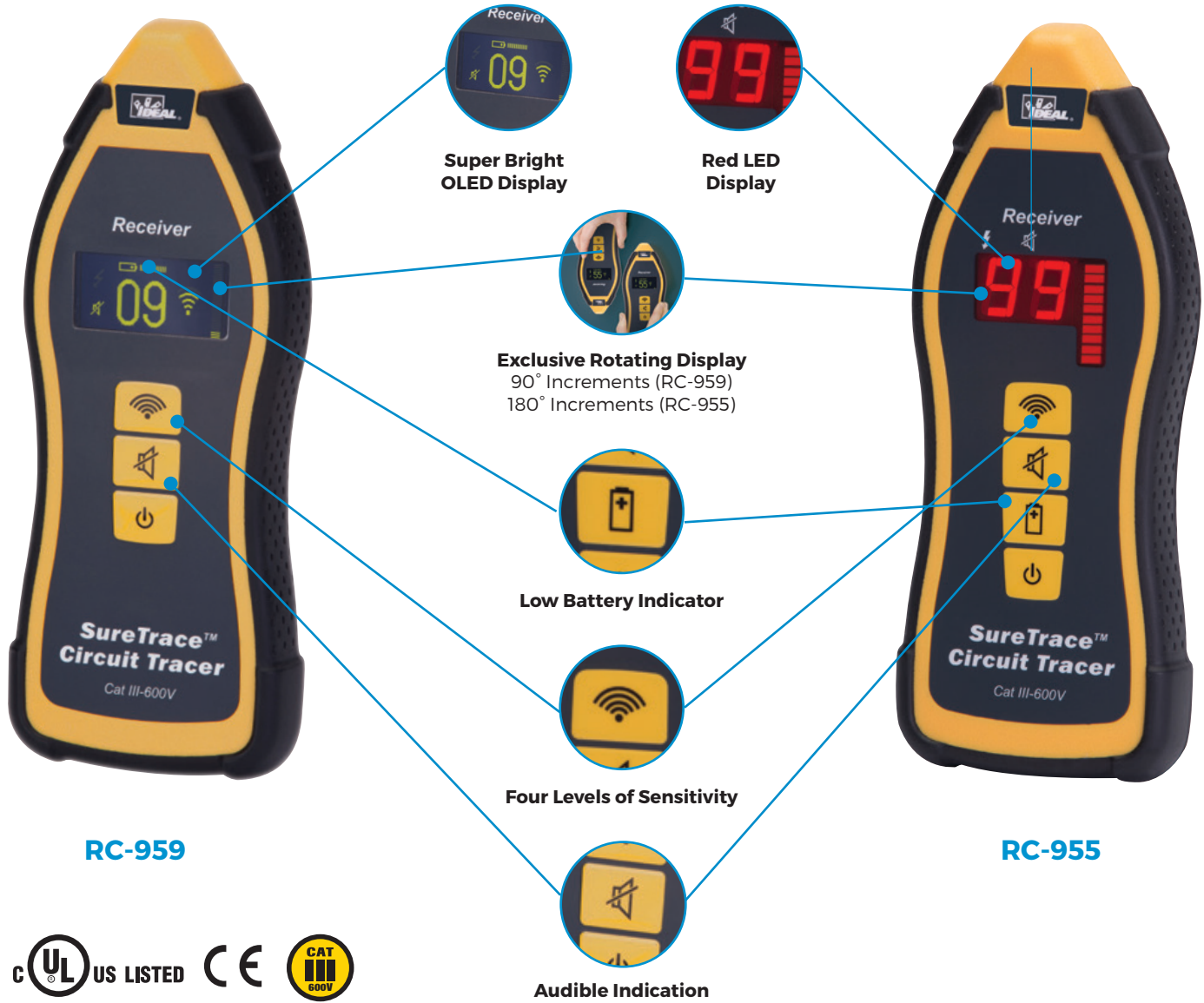


Scan with your smartphone to see a video and learn more

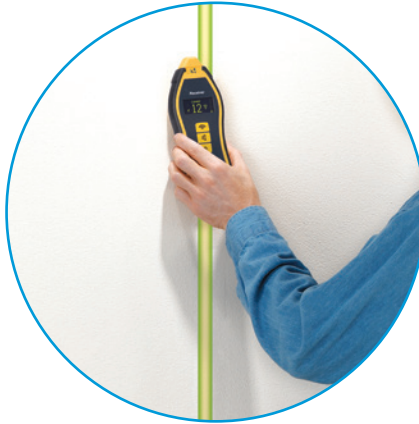
### KIT OPTIONS AND PARTS

KIT OPTIONS	 <b>61-959</b> Receiver with Super-Bright OLED Rotating Display (90° increments) and inductive clamp and battery pack	 <b>61-957</b> Receiver with Super-Bright OLED Rotating Display (90° increments)	 <b>61-955</b> Receiver with Rotating Red LED Display (180° increments)
INDIVIDUAL COMPONENTS	61-959	61-957	61-955
<b>RC-959</b> Receiver with Super-Bright OLED Display 	✓	✓	—
<b>RC-955</b> Receiver with Red LED Display 	—	—	✓
<b>TR-955</b> Transmitter Rated for Use on Circuits from 0 to 600V AC/DC 	✓	✓	✓
<b>IC-958   BP-958</b> Inductive Clamp and Battery Pack For use on 0 to 120V circuits carrying less than 5 Amps. 	✓	—	—
<b>TL-956</b> Test Lead Set 	✓	✓	✓
<b>CR-959</b> Cradle for RC-959 and RC-955 Receivers 	Sold Separately	Sold Separately	Sold Separately

# CIRCUIT TRACER RECEIVERS FEATURES



**Finds Opens**



**Finds Conductors  
in Walls, Ceilings and Floors**



**Finds Dead Shorts**

**0-600V AC or DC Lead Set included.**



# CIRCUIT TRACER TRANSMITTER FEATURES



**CertainCircuit™**  
(TR-955)



## ⚡ CertainCircuit™

After the correct breaker has been identified and tripped, the transmitter senses the loss of power and sends a different signal back to the receiver at the panel to give the user confidence that the right circuit has been de-energized.



**Energized**



**De-energized**



**Traces de-energized circuits**



**Inductive Clamp**  
for when direct contact with alligator clips is not possible

## TR-955



**Inductive Clamp & Battery Pack**  
(For use on circuits carrying up to 120V AC w/less than 5 Amps)  
**IC-958 | BP-958**



**Cradle**  
(For use on RC-955 & RC-959 Receivers)  
**CR-959**



**Tracer Test Lead Set**  
**TL-956 (includes the following)**

1. 3 Ft. Lead Adapter for Transmitter (set of 2)
2. 25 ft. Lead Adapter for Transmitter
3. Alligator Clips (set of 2)
4. Blade Prongs
5. Prong for Lead Adapters
6. Outlet Plug Adapter for Transmitter

# CIRCUIT BREAKER

## FINDERS



Scan with your smartphone to see a video and learn more

### FEATURES

**GFCI Trip**  
Transmitter for #61-534  
GFCI  
Wiring Indications  
CORRECT WIRING

**Non-Contact Voltage Tester**

**LED Indicators**

**Audible Tone**

**Polarity & Live Circuit Indication**

**61-534**  
Circuit Breaker Finder  
with Digital Receiver

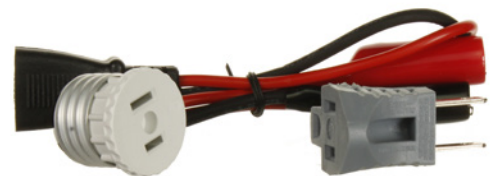
**61-532**  
Transmitter for 61-532  
120V AC Circuit Breaker Finder

**Live Circuit Indication**



#### Lead Adapter Kit

Provides adapters for use in lighting fixtures.



#### TL-532A

Test Lead & Adapter Kit

# CIRCUIT BREAKER FINDER SPECIFICATIONS



**61-534**

Transmitter

Triple Function - Signal Transmitter, Polarity Indicator & GFCI Receptacle Tester



**61-534**

Receiver

Dual Function - Non-Contact Voltage Tester & Breaker Finder



**61-532**

Transmitter



**61-532**

Receiver

## CIRCUIT BREAKER FINDER SELECTION GUIDE



### TRANSMITTER FEATURES

	<b>61-534</b>	<b>61-532</b>
CAT Rating (Safety)	CAT II 300V	CAT II 300V
Listing	UL 1436	UL 1436
Line Voltage	Line Powered (120V AC only)	Line Powered (120V AC only)
Supply Frequency	47-63Hz	47-63Hz
Weight	50g (approx.)	50g (approx.)
Pulse Amplitude	18A (approx.) @ 120V	18A (approx.) @ 120V
Pulse Rate	4mS every 17ms (@ 60Hz)	4mS every 17ms (@ 60Hz)
Power Consumption	200mW max. @ 120V AC	200mW max. @ 120V
Operating Temperature	32° - 122°F (0 to 50°C)	32° - 122°F (0 to 50°C)
GFCI	✓	—
Polarity Indication	✓	—

### RECEIVER FEATURES

Visual and Audible Indicators	✓	✓
Low Battery Indication	✓	✓
Auto Power Off (after 10 mins. of no activity)	✓	✓
Battery Type	9V	9V
Weight	0.2 lbs. (w/o battery)	0.2 lbs. (w/o battery)
Warranty	2-Year*	2-Year*

### ACCESSORIES

Light Socket and 3-prong to 2-prong Adapters, Alligator Clips	<b>TL-532A</b>	<b>TL-532A</b>
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# SURETEST®

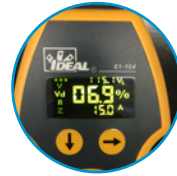
## CIRCUIT ANALYZER

### FEATURES

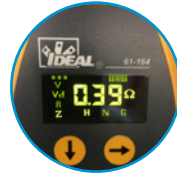


Scan with your smartphone to see a video and learn more

**61-164**  
Circuit Analyzer



**Displays Voltage Drop**  
at 12, 15 & 20 Amps



**Displays Impedance**  
of hot, neutral & ground



**Displays H N G**  
polarity



**Detects and Displays**  
false or "bootleg" ground



**Displays**  
neutral to ground voltage



**Trips GFCI**  
at 6mA or 30mA



**True RMS**  
Line Voltage



**Estimated Load**  
on Line in Amps



# CIRCUIT ANALYZER SPECIFICATIONS

SURETEST® CIRCUIT ANALYZER SPECIFICATIONS		61-164		
		Description	Range & Resolution	Accuracy
<b>TRANSMITTER FEATURES</b>				
CAT Rating (Safety)	CAT III 300V	—		
Listing	cULus	—		
AC Voltage (Note: The 61-164 is protected to 265V AC but should be unplugged immediately if plugged into a mis-wired outlet. It is intended for use on 120V AC circuits only.) Do not press any buttons.	—	85.0 - 265.0 VAC (Unplug if 240V AC is displayed and correct wiring.)	1.0%	
Frequency	—	45.0 - 65.0 Hz	1.0%	
Impedance	—	0.00 - 3.00 Ω	5.0%	
Neutral Ground Voltage	—	0.0 - 24.0V AC	2.0%	
% Voltage Drop 12A, 15A, 20A Load Tests	—	0.1% - 50.0%	5.0%	
GFCI mA Trip Level & Time to Trip in Milliseconds	—	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%	
Warranty	2-Year*	—		
<b>ACCESSORIES</b>		<b>Part No.</b>		
Ground Continuity Adapter (For checking grounding of cabinets, etc.)	<b>61-175</b>			
Isolated Ground Adapter (For determining whether receptacle has an isolated ground.)	<b>61-176</b>			
Alligator Clip Adapter (For connection to circuits other than outlets.)	<b>61-183</b>			
1' Extension Cord (included)	<b>61-182</b>			
Nylon Carrying Case (included)	<b>61-179</b>			

**IMPORTANT:** This circuit analyzer is intended for use by qualified electricians. Follow the NFPA 70E Standard for Electrical Safety in the Workplace when using this tester. Always consult the instruction manual provided with the tester for operational limitations and procedures associated with a specific tester.

Specifications are subject to change without notice.



**61-183**  
Alligator Clip Adapter  
for 61-164  
Circuit Analyzer



**61-175**  
Ground Continuity  
Adapter for 61-164  
Circuit Analyzer



**61-176**  
Isolated Ground  
Adapter for 61-164  
Circuit Analyzer



**61-182**  
1' Extension Cord  
for 61-164  
Circuit Analyzer

# CLAMP/FORK METER VS. MULTIMETER



**Safety** - A fork meter allows you to measure AC or DC current (depending on the model) by positioning the fork around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity.

*Limited to 200A AC/DC Measurement*

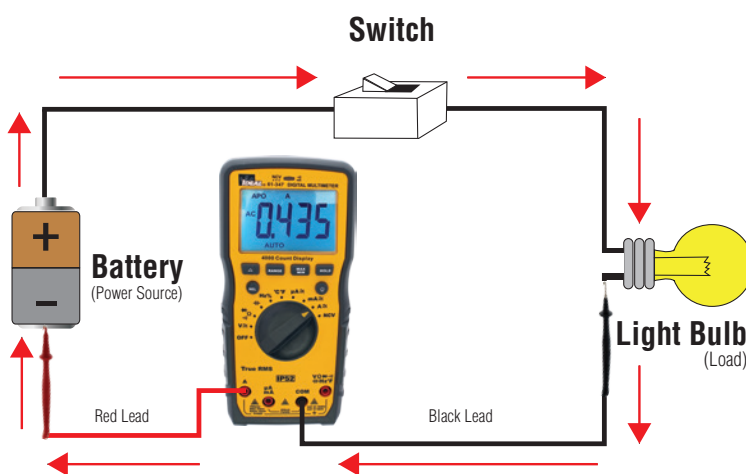
*No Fuse Protection required*

**Safety** - A clamp meter allows you to measure AC or DC current (depending on the model) by positioning the clamp jaw around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity. This allows isolation of a conductor being tested in a bundle of conductors.

*Limited to 2000A AC/DC Measurement (Hard Clamp)*

*No Fuse Protection required*



Multimeters measure current differently than a fork or clamp meter. To measure current with a multimeter:

- You must insert the multimeter into the circuit to get the current to flow THROUGH the meter and are making direct contact with the live circuit.

To properly conduct a current measurement in accordance with Electrical Safety-related Work Practices (ESWP) you must:

- de-energize the circuit, disconnect the circuit, insert the meter into the circuit, re-energize the circuit to test current
- AND THEN... repeat the whole process again to "remove" the meter from the circuit after the test.

*Limited to 10A AC/DC Measurement*

*Fuse Protection required (due to current pass-through)*

# TIGHTSIGHT®

## CLAMP METERS

**Patented TightSight® Backlit Display** eliminates need to bend or twist conductors or place your head near or in the panel and allows you to easily read the bottom display when taking all measurements.



Scan with your smartphone to see a video and learn more



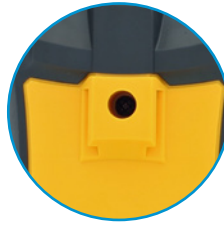
**Non-Contact Voltage Tester**  
Screen displays  
Electromagnetic Field (EF)



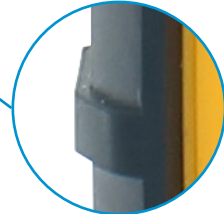
**Flashlight**



**Built-In Probe Tip Holder**



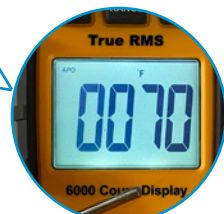
**Universal Magnetic Strap Clip**



**Overmolded Industrial Grip**  
2M Drop (model specific)



**TightSight® End Display**



**Backlit Displays**



**61-757 | 61-747**



# FORK METERS

## FEATURES



**Non-Contact Voltage Indication**  
Built in Clamp Tip



**0.75 in. (19mm) Jaw Opening**



**Flashlight/Backlight**



**Probe Storage & Lead Holders**  
(on back)



**Delta**  
(difference from original reading)



**Max./Min.**



**61-415**



**Patented TightSight® Backlit Display** eliminates need to bend or twist conductors or place your head near or in the panel and allows you to easily read the bottom display when taking measurements





## TIGHTSIGHT® CLAMP METERS



**61-775**  
1000A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
CAT IV 600V | CAT III 1000V



**61-765**  
660A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
CAT IV 600V | CAT III 1000V



**61-757**  
600A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
& Flashlight  
CAT IV 600V | CAT III 1000V



**61-747**  
400A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
& Flashlight  
CAT III 600V



**61-415**  
200A AC/DC  
Split Jaw Meter  
TightSight® w/Backlight  
& Flashlight  
CAT IV 600V | CAT III 1000V

## CONVENTIONAL CLAMP METERS



**61-744**  
400A AC Clamp Meter  
4000 Count & Flashlight  
CAT III 600V



**61-737**  
400A AC Clamp Meter  
4000 Count w/Backlight  
CAT III 600V



**61-405**  
200A AC Split Jaw Meter  
w/Backlight & Flashlight  
CAT III 600V

## CLAMP METER ACCESSORIES



**TL-757**  
Test Leads  
w/Alligator Clips



**UMHS-757**  
Universal Magnetic  
Hanging Strap



**TC-757**  
Thermocouple



**C-757**  
Nylon Carrying Case




IMPORTANT: The clamp meters on this page are intended for use by qualified electricians. Follow the NFPA 70E Standard for Electrical Safety in the workplace when using this tester. Always consult the instruction manual provided with the tester for operational limitations and procedures associated with a specific tester.

# CLAMP METER SPECIFICATIONS

CLAMP METER SELECTION GUIDE			 NEW	 NEW
	61-775	61-765	61-757	61-747
<b>FEATURES</b>				
CAT Rating (Safety)	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 600V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Drop Protection			6.6 ft. (2m)	6.6 ft. (2 m)
Clamp/Jaw Opening	2.0 in. (50.8mm)	1.5 in. (38mm)	1.4 in. (35.5mm)	1.4 in. (35.5mm)
AC Voltage (Volts)	750V	750V	600V	600V
DC Voltage (Volts)	750V	750V	1000V	600V
AC Current (Amps)	1000A	660A	600A	400A
DC Current (Amps)	1000A	660A	600A	400A
Ohms (Resistance)	999.9Ω	999.9Ω	60MΩ	40MΩ
AC Millivolts	—	—	6000	4000
DC Millivolts	—	—	6000	4000
True RMS	✓	✓	✓	✓
High Voltage Alarm	✓	✓	ACV/DCV   >30V	ACV/DCV   >30V
Audible Continuity	✓	✓	✓	✓
Visual Continuity	✓	✓	✓	✓
Backlight	✓	✓	✓	✓
Temperature	—	—	-40°F ~ 1832°F -40°C ~ 1000°C	-40°F ~ 1832°F -40°C ~ 1000°C
Low Impedance (LoZ)	—	—	Yes	—
NCV	—	—	40-600V	40-600V
Auto Ranging	✓	✓	✓	✓
Range Hold	—	—	✓	✓
Data Hold	✓	✓	✓	✓
Relative	✓	✓	✓	✓
Diode Test	—	—	✓	✓
Capacitance Test	✓	✓	6.000mF	4.000mF
Frequency / Duty Cycle	✓	✓	10Hz~9.999KHz	10Hz~9.999KHz
Max / Min	✓	✓	✓	✓
Magnetic Strap Mount	—	—	✓	✓
Test Probe Holder	—	—	✓	✓
Flashlight	—	—	✓	✓
Auto-Power Off (APO)	✓	✓	✓	✓
APO Disable	✓	✓	✓	✓
Low Battery Indication	✓	✓	✓	✓
Battery Type	1 x 9 Volt	1 x 9 Volt	3 x 1.5V AAA	3 x 1.5V AAA
Bottom LCD Display	✓	✓	✓	✓
LCD Display Count	9999	9999	6000	4000
Warranty	2-Year*	2-Year*	2-Year*	2-Year*
<b>ACCESSORIES</b>				
Leads & Alligator Clips	Included	Included	Included	Included

Specifications are subject to change without notice.

# CLAMP METER SPECIFICATIONS

CLAMP METER SELECTION GUIDE		 NEW	 NEW	 NEW
	61-744	61-737	61-415	61-405
<b>FEATURES</b>				
CAT Rating (Safety)	CAT III 600V	CAT III 600V	CAT IV 600V CAT III 1000V	CAT III 600V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Drop Protection		3.3 ft. (1m)	6.6 ft. (2m)	3.3 ft. (1m)
Clamp/Jaw Opening	1.45 in. (36.5mm)	1.4 in. (35.5mm)	0.75 in. (19mm)	0.75 in. (19mm)
AC Voltage (Volts)	600V	600V	1000	1000
DC Voltage (Volts)	600V	600V	1000	1000
AC Current (Amps)	600A	400A	200	200
DC Current (Amps)	—	—	200	—
Ohms (Resistance)	40M $\Omega$	40M $\Omega$	60M $\Omega$	60M $\Omega$
AC Millivolts	—	4000	✓	✓
DC Millivolts	—	4000	✓	✓
True RMS	—	✓	✓	✓
High Voltage Alarm	—	ACV/DCV   >30V	ACV/DCV   >30V	ACV/DCV   >30V
Audible Continuity	✓	✓	✓	✓
Visual Continuity	—	✓	✓	✓
Backlight	—	✓	✓	✓
Temperature	—	-40°F - 1832°F -40°C - 1000°C	—	—
Low Impedance (LoZ)	—	—	—	—
NCV	70-600V	40-600V	40-600V	40-600V
Auto Ranging	✓	✓	✓	✓
Range Hold	✓	✓	✓	✓
Data Hold	✓	✓	✓	✓
Relative	—	✓	✓	✓
Diode Test	—	✓	✓	✓
Capacitance Test	—	400.0 $\mu$ F	6.000mF	6.000mF
Frequency / Duty Cycle	—	10Hz-9.999KHz	—	—
Max / Min	—	✓	✓	✓
Magnetic Strap Mount	—	✓	✓	✓
Test Probe Holder	—	✓	✓	✓
Flashlight	—	—	✓	✓
Auto-Power Off (APO)	✓	✓	✓	✓
APO Disable	—	—	✓	✓
Low Battery Indication	✓	✓	✓	✓
Battery Type	2 x 1.5V AAA	3 x 1.5V AAA	2 x 1.5V AAA	2 x 1.5V AAA
Bottom LCD Display	—	—	✓	—
LCD Display Count	4000	4000	6000	6000
Warranty	2-Year*	2-Year*	2-Year*	2-Year*
<b>ACCESSORIES</b>				
Leads, Case & Batteries	Leads only	Included	Included	Included
Thermocouple	—	Included	—	—

Specifications are subject to change without notice.

# MULTIMETER VS. CLAMP/FORK METER



**Safety** - A fork meter allows you to measure AC or DC current (depending on the model) by positioning the fork around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity.

*Limited to 200A AC/DC Measurement*

*No Fuse Protection required*



**Safety** - A clamp meter allows you to measure AC or DC current (depending on the model) by positioning the clamp jaw around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity. This allows isolation of a conductor being tested in a bundle of conductors.

*Limited to 2000A AC/DC Measurement (Hard Clamp)*

*No Fuse Protection required*

Multimeters measure current differently than a fork or clamp meter. To measure current with a multimeter:

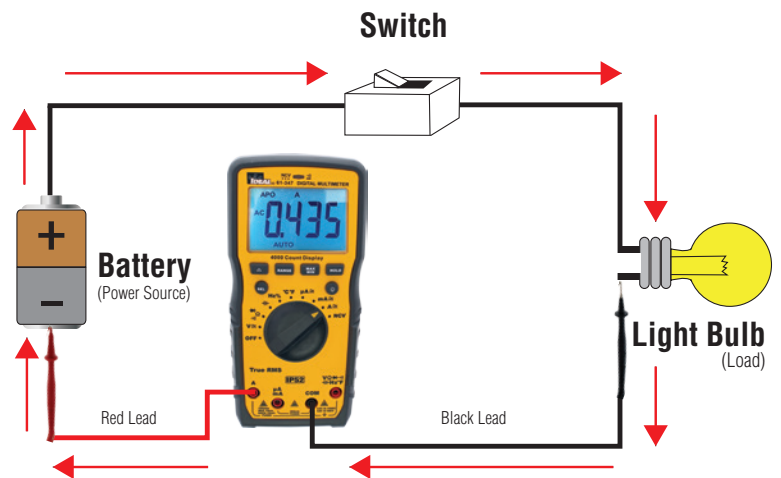
- You must insert the multimeter into the circuit to get the current to flow THROUGH the meter and are making direct contact with the live circuit.

To properly conduct a current measurement in accordance with Electrical Safety-related Work Practices (ESWP) you must:

- de-energize the circuit, disconnect the circuit, insert the meter in the circuit, re-energize the circuit to test current
- AND THEN... repeat the whole process again to "remove" the meter from the circuit after the test.

*Limited to 10A AC/DC Measurement*

*Fuse Protection required (due to current pass-through)*





# DIGITAL MULTIMETERS

## FEATURES



**Non-Contact Voltage Tester**  
Built in



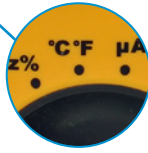
**Non-Contact Voltage, High Voltage, Visual Indications, Augment Audible Indication**  
(61-357, 61-347, 61-337)



**Backlit Display**  
(all models)



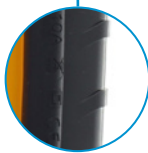
**Probe Holder Storage**  
All Models



**Temperature**  
(61-357, 61-347, 61-337)



**Universal Magnetic Strap Clip**  
All Models



**Removable Boot**  
All Models



**FUSE Notification**  
(61-357, 61-347, 61-337)



**LEAD Warning**  
(61-357, 61-347, 61-337)



**Bar Graph**  
(61-357 only)

# DIGITAL MULTIMETERS



### 61-357

1000V Auto Range TRMS  
6000 Count Display Multimeter w/  
NCVT, Temp, Bar Graph & LoZ  
CATIV 600V | CATIII 1000V



### 61-347

1000V Auto Range TRMS  
6000 Count Display  
Multimeter w/NCVT, & Temp  
CAT IV 600V | CAT III 1000V



### 61-337

600V Auto Range  
Multimeter w/NCVT & Temp  
CATIII 600V



### 61-327

600V Manual Range  
Multimeter w/ NCVT CATIII 600V

# ACCESSORIES



**TL-757**  
Test Leads



**UMHS-757**  
Universal Magnetic  
Hanging Strap



**TC-757**  
Thermocouple



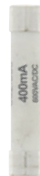
**C-357**  
Nylon Carrying Case



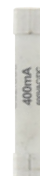
**F-11A-347357**  
Fuse for 61-357 & 61-347



**F-600mA-347357**  
Fuse for 61-357 & 61-347



**F-10A-337**  
Fuse for 61-337



**F-400mA-337**  
Fuse for 61-337



Scan with your  
smartphone to see a  
video and learn more

# DIGITAL MULTIMETERS SELECTION GUIDE

DIGITAL MULTIMETER SELECTION GUIDE	 NEW	 NEW	 NEW	 NEW
	61-357	61-347	61-337	61-327
<b>FEATURES</b>				
CAT Rating (Safety)	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 600V	CAT III 600V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Drop Protection	6.6 ft. (2m)	6.6 ft. (2m)	3.3 ft. (1m)	3.3 ft. (1m)
Ingress Protection	IP52	IP52	—	—
AC Voltage (Volts)	1000V	1000V	600V	600V
DC Voltage (Volts)	1000V	1000V	600V	600V
AC Current (Amps)	10A	10A	10A	—
DC Current (Amps)	10A	10A	10A	—
Ohms (Resistance)	60MΩ	60MΩ	40MΩ	4MΩ
AC Millivolts	6000	6000	4000	—
DC Millivolts	6000	6000	4000	4000
AC Milliamps	6000	6000	4000	—
DC Milliamps	6000	6000	4000	—
AC Microamps	6000	6000	4000	—
DC Microamps	6000	6000	4000	—
True RMS	✓	✓	—	—
High Voltage Alarm	ACV/DCV   >30V	ACV/DCV   >30V	ACV/DCV   >30V	ACV/DCV   >30V
Audible Continuity	✓	✓	✓	✓
Visual Continuity	✓	✓	✓	✓
Backlight	✓	✓	✓	✓
Temperature	-40 ~ 1832°F -40 ~ 1000°C	-40 ~ 1832°F -40 ~ 1000°C	-40 ~ 1832°F -40 ~ 1000°C	—
Low Impedance (LoZ)	✓	—	—	—
NCV	✓	✓	✓	—
Auto Ranging	✓	✓	✓	—
Range Hold	✓	✓	✓	—
Data Hold	✓	✓	✓	✓
Diode Test	✓	✓	✓	✓
Capacitance Test	6000 μF	6000 μF	4000 μF	—
Frequency / Duty Cycle	10Hz - 9.99 KHz	10Hz - 9.99 KHz	10Hz - 9.99 KHz	10Hz - 9.99 KHz
Max / Min	✓	✓	✓	—
Magnetic Strap Mount	✓	✓	✓	✓
Test Probe Holder	✓	✓	✓	✓
Auto-Power Off	✓	✓	✓	✓
APO Disable	✓	✓	✓	✓
Low Battery Indication	✓	✓	✓	✓
Battery Type (Included)	3 x 1.5V AAA	3 x 1.5V AAA	3 x 1.5V AAA	3 x 1.5V AAA
LCD Display Count	6000	6000	4000	2000
Lead Warning	✓	✓	✓	—
Fuse Notification	✓	✓	✓	—
Bar Graph	✓	—	—	—
Battery Test	—	—	—	✓
Warranty	2-Year*	2-Year*	2-Year*	2-Year*
<b>Accessories</b>				
Leads, Case & Temp. Sensor	Included	Included	Included	Leads Only
Thermocouple	Included	Included	Included	—

Specifications are subject to change without notice.



# VOLTAGE TESTERS

## FEATURES



Scan with your smartphone to see a video and learn more



**TL-757**  
Test Leads



**UMHS-757**  
Universal Magnetic Hanging Strap (61-557)



# VOLTAGE TESTERS SELECTION GUIDE



## 61-557

Voltage and Continuity Tester w/LCD, GFCI, Flashlight & NCVT  
6-600V AC/DC, CAT IV 600V



## 61-547

8 Level AC/DC Voltage Indicator with Polarity Indicator  
12-600V DC | 24-600V AC  
CAT III 600V



## 61-076

Vol-Con® Voltage/Continuity Tester  
5-600V AC/DC  
CAT III 600V



## 61-065

Vol-Test® Voltage Tester  
100-600V AC/DC  
CAT III 600V



### VOLTAGE TESTER SELECTION GUIDE



NEW



NEW



61-557

61-547

61-076

61-065

#### FEATURES

CAT Rating (Safety)	CAT IV 600V	CAT III 600V	CAT III 600V	CAT III 600V
Listing Preferred	cULus, CE	cULus, CE	cULus	cULus
Drop Protection	6.6 ft. (2m)	6.6 ft. (2m)		
Ingress Protection	IP42	IP42	—	—
AC Voltage (Volts)	6 ~ 600	24 ~ 600	5 ~ 600	100 ~ 600
DC Voltage (Volts)	6 ~ 600	12 ~ 600	5 ~ 600	100 ~ 600
High Voltage Alarm	ACV >30 or DCV >30V	ACV/DCV >48V	—	—
Audible Continuity	✓	—	—	—
Visual Continuity	✓	—	✓	—
Backlight	✓	—	—	—
Low Impedance (LoZ)	✓	—	✓	✓
NCV	90-600V AC	—	—	—
Auto Ranging	✓	—	—	—
Magnetic Strap Mount	✓	✓	—	—
Test Probe Holder	✓	✓	✓	✓
Flashlight	✓	—	—	—
Auto-Power Off (APO)	✓	—	—	—
Low Battery Indicator	✓	—	—	—
Battery Type	3 x 1.5V AAA	—	4 x 1.5V LR44	—
LCD Display Count	600	—	—	—
Backlight	✓	—	—	—
DC Polarity Indication	✓	✓	✓	—
Leads	Removable	Fixed	Removable	Removable
GFCI Test	✓	—	—	—
Display	LCD	Neon Lamps	Indicator Movement	Indicator Movement
Warranty	2-Year*	2-Year*	2-Year*	2-Year*
<b>ACCESSORIES</b>				
Test Leads	TL-757	—	61-070	61-070
Magnetic Hanging Strap	UMHS-757	UMHS-757	—	—

Specifications are subject to change without notice.

# RECEPTACLE TESTERS

## FEATURES



Scan with your smartphone to see a video and learn more



**Digital Voltage Readout**  
Provides Voltage Level at Outlet



**GFCI Test w/Indicator Light**



**Green Lights**  
Indicate Correct Wiring



**Red Lights**  
Indicate Incorrect Wiring



**On/Off Button**  
Confirms Tester is Working



**LEDs Easily Visible**  
Plugged in or rotated to fit receptacles.

# RECEPTACLE TESTER SELECTION GUIDE



**61-517**  
120V AC GFCI  
Receptacle/Voltage  
Tester  
CAT II 150V AC



Neon Lamp  
Polarity Indication



**61-051**  
E-Z Check® Plus  
GFCI Circuit  
Tester



Fits Standard  
120V Outlets



**61-035**  
E-Z Check®  
Circuit Tester



GFCI Test  
Button



**61-501**  
GFCI Receptacle  
Tester

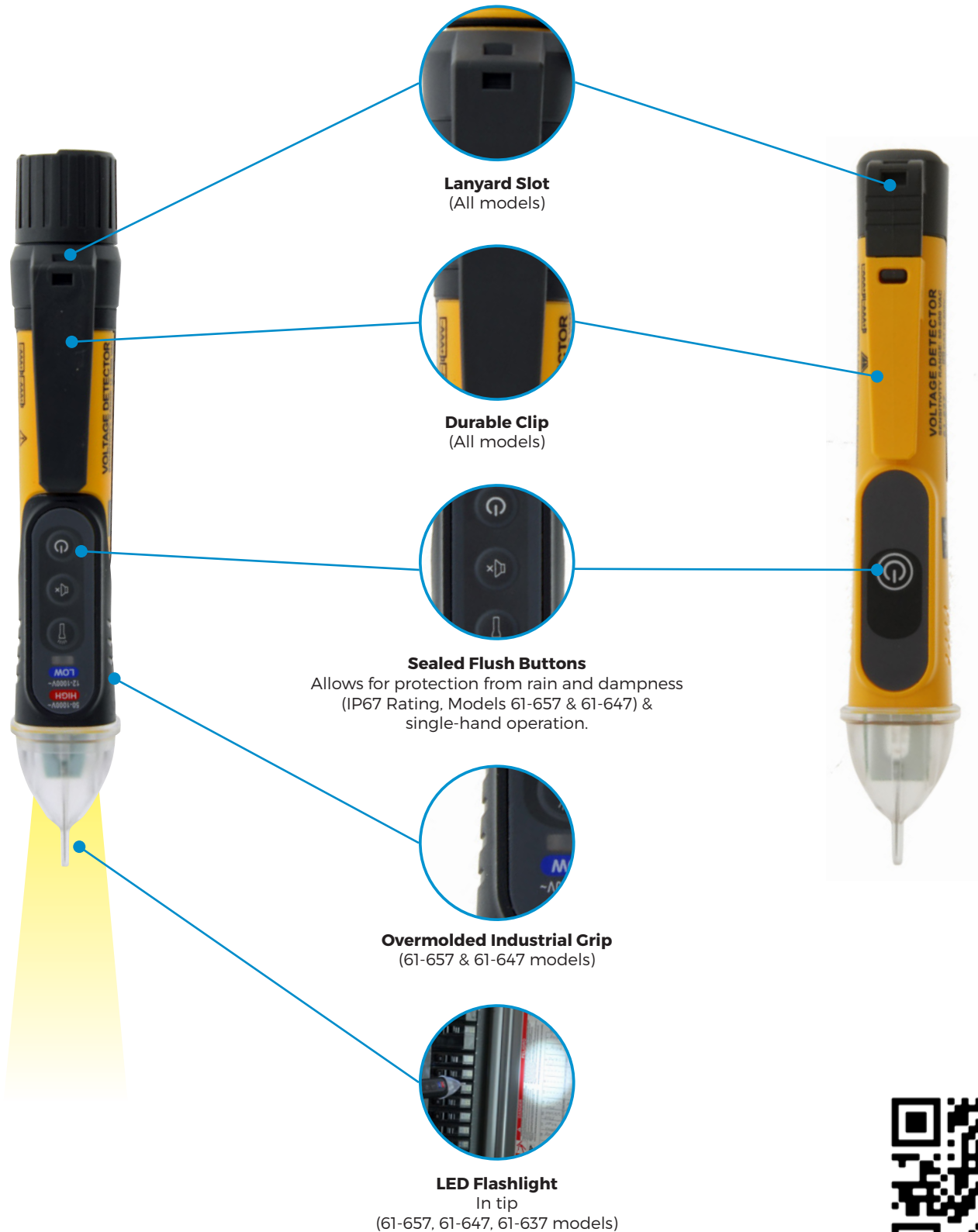


RECEPTACLE TESTER SELECTION GUIDE	61-517	61-051	61-035	61-501
<b>FEATURES</b>				
Voltage Rating	120V AC	120V AC	120V AC	120V AC
Polarity Indication	✓	✓	✓	✓
GFI Trip	✓	✓	—	✓
UL Listed	✓	✓	✓	✓
Made in the USA	—	✓	✓	—
Premium Neon Lamps	—	✓	✓	✓
LCD Display	✓	—	—	—
Warranty	2-Year*	2-Year*	2-Year*	1-Year

Specifications are subject to change without notice.

# NON-CONTACT VOLTAGE TESTERS

## FEATURES



Scan with your smartphone to see a video and learn more



# NON-CONTACT VOLTAGE TESTERS FEATURES



**61-657**  
Dual Range  
12 to 1000V AC  
NCVT w/Flashlight  
CAT IV 1000V



**61-647**  
Single Range  
50 to 1000V AC  
NCVT w/Flashlight  
CAT IV 1000V



**61-637**  
Single Range  
24 to 600V AC  
NCVT w/Flashlight  
CAT IV 600V



**61-627**  
Single Range  
50 to 600V AC  
NCVT  
CAT IV 600V



## Dual Range on 61-657 only.



**Standard Voltage Range**  
Indicated by a Red LED



**Power On**  
Indicated by a Green LED







**Low Voltage Range**  
Indicated by a Blue LED



**Presence of Voltage**  
Indicated by a Flashing Red LED & Audible Tone

# NON-CONTACT VOLTAGE TESTERS SELECTION GUIDE

NON-CONTACT VOLTAGE TESTER SELECTION GUIDE				
	61-657	61-647	61-637	61-627
<b>FEATURES</b>				
CAT Rating (Safety)	CAT IV 1000V	CAT IV 1000V	CAT IV 600V	CAT IV 600V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Voltage Sensing Range	12 ~ 1000V AC	50 ~ 1000V AC	24 ~ 600V AC	50 ~ 600V AC
Dual Range	✓	—	—	—
Flashlight	✓	✓	✓	—
Drop Protection	6.6 ft. (2m)	6.6 ft. (2m)	3.3 ft. (1m)	3.3 ft. (1m)
Ingress Protection	IP67	IP67	—	—
Dual Range Sensitivity	✓	—	—	—
Audible Indication	✓	✓	✓	✓
Audible Defeat	✓	✓	✓	—
Visual Indication	Green On, Flashing Red	Green On, Flashing Red	Green On, Flashing Red	Green On, Flashing Red
Visual Range Indicator	Blue Low, Red High	—	—	—
Lanyard Compatible	✓	✓	✓	✓
Auto-Power Off (APO)	✓	✓	✓	✓
Low Battery Indication	✓	✓	✓	✓
Battery Type	2 x 1.5V AAA	2 x 1.5V AAA	2 x 1.5V AAA	2 x 1.5V AAA
Warranty	2-Year*	2-Year*	2-Year*	2-Year*

Specifications are subject to change without notice.



# INFRARED THERMOMETERS

## FEATURES

Scan with your smartphone to see a video and learn more



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3 as described in Laser Notice No. 56 dated May 8, 2019.

INFRARED THERMOMETER SELECTION GUIDE		
FEATURES	61-847	61-827
Listing	cULus	cULus
Certification	CLASS 2, IEC 60825-1:2014	CLASS 2, IEC 60825-1:2014
Wavelength	630nm-670nm	630nm-670nm
Output	< 1mW	< 1mW
Listing	cULs, CE	cULs, CE
Drop Protection	6.6 ft. (2m)	3.3 ft. (1m)
Optical Resolution (distance-to-spot)	12 : 1	10 : 1
Measurement Range	-26° - 932°F (-32° to 500°C)	-4° to 752°F (-20° to 400°C)
Laser Targeting	Dual	Single
Auto Scan	✓	—
Max/Min/Avg/Diff	✓	—
High/Low Alarm	✓	—
Data Hold	✓	✓
Lock-on (for continuous measurements)	✓	—
Emissivity	0.10 - 1.00 Adjustable	0.95 Fixed
Backlit Display	✓	✓
Display	LCD	LCD
Auto Power-Off	✓	✓
Selectable Celsius / Fahrenheit	✓	✓
Battery Type	2 x 1.5V AAA	2 x 1.5V AAA
Low Battery Indicator	✓	✓
Response Time	250 ms	500 ms
Spectral Response	8 to 14µm	8 to 14µm
Warranty	2-Year*	2-Year*

Specifications are subject to change without notice.

# SPECIALTY TESTERS



**61-520**  
3-Phase Rotation  
Tester



**61-521**  
3-Phase Motor/Rotation  
Tester



**61-797**  
Insulation Tester  
w/PI, DAR



**61-795**  
Insulation Tester



**61-796**  
3-Pole Ground  
Resistance Tester



**61-920**  
Ground Resistance  
Clamp Meter





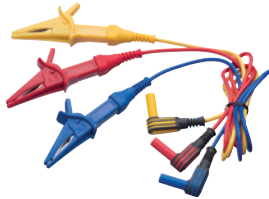
**61-686**  
Digital Light  
Meter







# SPECIALTY TESTERS FEATURES

PHASE ROTATION SELECTION GUIDE		
	61-520	61-521
<b>FEATURES</b>		
Motor Rotation	—	✓
Phase Rotation	✓	✓
120 to 600V AC	✓	✓
Color Coded Leads	✓	✓
Detachable Leads	—	✓
Warranty	2-Year*	2-Year*
<b>ACCESSORIES (Included)</b>		
Test Leads		TL-521



**TL-521**  
Test Lead Set


INSULATION TESTER SELECTION GUIDE		
	61-795	61-797
<b>FEATURES</b>		
Test Voltage	250/500/1000V DC	50/100/250/500/1000V DC
Voltage AC/DC	0.1 - 600.0V	0.1 - 600.0V
Continuity	0.01 - 20.0 Ω	—
Resistance	0.01Ω - 200.0 Ω	0.01Ω - 40.00k Ω
Insulation Resistance	Up to 4000M Ω	Up to 20G Ω
Warranty	2-Year*	2-Year*
<b>ACCESSORIES (Included)</b>		
Test Leads	TL-795	TL-795
Remote Probe	—	TL-797RP



**TL-795**  
Test Lead Set  
w/Premium Alligator Clips




**TL-797RP**  
Remote Probe Test Lead Set

GROUND ROD TESTING SELECTION GUIDE		
	61-796	61-920
<b>FEATURES</b>		
3 Point Fall of Potential Method	✓	—
Clamp on Technique	—	✓
Auto Ranging	—	✓
Measuring Range	0 - 2000 Ω	0 - 1200 Ω
Ground Leakage Current	—	100mA/1000mA/15A/30A
Warranty	2-Year*	2-Year*
<b>ACCESSORIES (Included)</b>		
Test Leads	TL-796	—



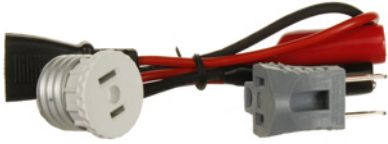
**TL-796**  
Earth Resistance Lead Set

LIGHT METER FEATURES	
	61-686
<b>FEATURES</b>	
Four Measurement Ranges	Up to 20,000 Foot Candles or 200,000 Lux
Data and Max Hold Modes	✓
Auto Zero Adjust	✓
Low Battery Indication	✓
Auto Power Off	✓
Remote Sensor w/59" attached Coiled Cable	✓
Warranty	2-Year*

Specifications are subject to change without notice.

# ACCESSORIES

NEW



**TL-532A**  
120V AC Circuit Breaker  
Finder Adapter Kit

NEW



**TL-757**  
Universal Test Leads  
& Alligator Clips

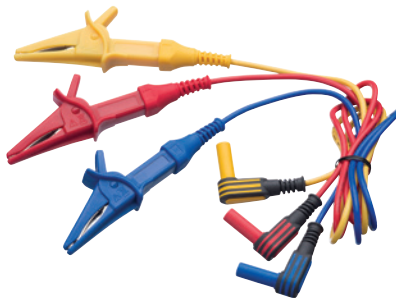
NEW



**UMHS-757**  
Universal Magnetic Hanging Strap  
(For use with 61-405, 61-415, 61-737,  
61-747, 61-757, 61-327, 61-337, 61-347,  
61-357, 61-547 & 61-557)



**TC-757**  
Thermocouple



**TL-521**  
Test Lead Set



**TL-796**  
Earth Resistance Lead Set



**TL-797RP**  
Remove Probe Test Lead



**TL-795**  
Test Leads w/ Alligator Clips  
(premium)



**TLF-014**  
Fused Test Lead Kit  
Compatible with all testers

Replacement fuse **TLF-001**  
(500mA/1000V, Pack of 2)



**61-070**  
Standard Test Leads  
(for use with 61-076 & 61-065)

































**TL-956**  
Test Lead Set

# TEST LEAD SELECTION GUIDE

For this **TESTER...**

use these **TEST LEADS**

<p><b>61-065</b> Vol-Test® Voltage Tester <b>61-076</b> Vol-Con® Voltage/ Continuity Tester</p> 	▶	<p><b>61-070</b> Standard Vol-Con® Test Leads</p> 	
<p><b>61-737   61-747   61-757</b> Digital Clamp Meters</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	<p><b>UMHS-757</b> Magnetic Strap</p> 
<p><b>61-405   61-415</b> Digital Split Jaw Meters</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	<p><b>UMHS-757</b> Magnetic Strap</p> 
<p><b>61-557</b> Voltage Tester</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	<p><b>UMHS-757</b> Magnetic Strap</p> 
<p><b>61-521</b> 3-Phase/Motor Rotation Tester</p> 	▶	<p><b>TL-521</b> Test Lead Set</p> 	
<p><b>61-327   61-337 61-347   61-357</b> Digital Multimeters</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	<p><b>UMHS-757</b> Magnetic Strap</p> 
<p><b>61-744</b> Clamp-Pro™ 600A Clamp Meter</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	<p><b>UMHS-757</b> Magnetic Strap</p> 
<p><b>61-765</b> 660A Clamp Meter <b>61-775</b> 1000A Clamp Meter</p> 	▶	<p><b>TL-757</b> Test Lead Set</p> 	
<p><b>61-795</b> Insulation Tester</p> 	▶	<p><b>TL-795</b> Premium Test Leads w/Alliga- tor Clips</p> 	
<p><b>61-796</b> 3-Pole Ground Resistance Tester</p> 	▶	<p><b>TL-796</b> Earth Resistance Lead Set</p> 	
<p><b>61-797</b> Insulation Tester</p> 	▶	<p><b>TL-795</b> Test Leads w/Alligator Clips Premium</p> 	<p><b>TL-797RP</b> Remote Probe Test Lead</p> 
<p><b>TR-955</b> Transmitter for SureTrace™ Circuit Tracers</p> 	▶	<p><b>TL-956</b> Test Lead Set</p> 	

# CARRYING CASES



**61-179**  
Nylon Carrying Case



**C-90**  
Nylon Carrying Case



**C-290**  
Nylon Carrying Case



**C-760**  
Nylon Carrying Case



**C-770**  
Nylon Carrying Case



NEW

**C-357**  
Nylon Carrying Case



NEW

**C-757**  
Nylon Carrying Case

		VOLTAGE TESTERS		160	300				400	700				740	770	790
		61-065	61-076	61-164	61-327	61-337	61-347	61-357	61-405	61-415	61-727	61-737	61-747	61-757	61-744	61-775
<b>Selection Guide</b>																
<b>61-179</b>	Nylon Carrying Case			✓												
<b>C-90</b>	Nylon Carrying Case	✓	✓											✓		
<b>C-290</b>	Nylon Carrying Case															✓
<b>C-357</b>	Nylon Carrying Case				✓	✓	✓	✓								
<b>C-760</b>	Nylon Carrying Case													✓		
<b>C-757</b>	Nylon Carrying Case							✓	✓	✓	✓	✓	✓			
<b>C-770</b>	Nylon Carrying Case														✓	



# REPLACEMENT PARTS SELECTION GUIDE

SELECTION GUIDE		060	070	300				400	500				730	740	750	760	770	790		950								
		61-065	61-076	61-327	61-337	61-340	61-342	61-347	61-357	61-486	61-521	61-532	61-534	61-547	61-557	61-737	61-744	61-747	61-757	61-765	61-775	61-795	61-796	61-797	TR-955			
<b>FUSES</b>																												
<b>F-105</b>																												
1A (600V)	10.3 x 35mm																							✓				
<b>F-340</b>						✓	✓																					
0.5A (500V)	6.35 x 32mm					✓	✓																					
<b>F-341</b>						✓	✓																					
10A (1000V)	10 x 38mm					✓	✓																					
<b>F-400mA-337</b>						✓																						
400mA (600V)	6.5 x 32mm					✓																						
<b>F-10A-337</b>						✓																						
10A (600V)	10 x 38mm					✓																						
<b>F-600mA-347357</b>																												
600mA (1000V)	6.5 x 32 mm							✓	✓																			
<b>F-11A-347357</b>																												
11A (1000V)	10 x 38mm							✓	✓																			
<b>F-497</b>																												
600mA (1000V)	10 x 35mm																								✓			
<b>F-498</b>																												
11A (1000V)	10 x 38mm																								✓			
<b>F-797</b>																												
315mA (1000V)	5 x 32mm																								✓			
<b>BATTERIES</b>																												
AA																								✓	✓	✓	✓	
1.5V (AAA)				✓	✓			✓	✓						✓	✓	✓	✓	✓									
9V															✓	✓					✓	✓						
LR44			✓																									
<b>TEST LEADS</b>																												
<b>TLF-014</b>	Fused Test Lead Kit			✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			
<b>TL-796</b>	Earth Resistance Lead Set																									✓		
<b>TL-797RP</b>	Remote Probe Test Lead																										✓	
<b>61-070</b>	Standard Test Leads	✓	✓																									
<b>TL-757</b>	Universal Test Leads & Alligator Clips			✓	✓			✓	✓					✓	✓	✓	✓	✓	✓	✓	✓							
<b>TL-521</b>	Test Lead Set																											
<b>TL-795</b>	Test Leads w/ Alligator Clips (Premium)																									✓		✓
<b>TL-956</b>	Test Lead Set																											✓

# SAFETY IN THE FIELD

## IEC (International Electrotechnical Commission) Category Ratings



**Category I** – The signal level for telecommunications, electronic and other low-energy equipment with transient limiting protection. Peak impulse transient range is 600-4,000 volts with 30 ohm source.



**Category II** – The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600-6,000 volts with a 12 ohm source.

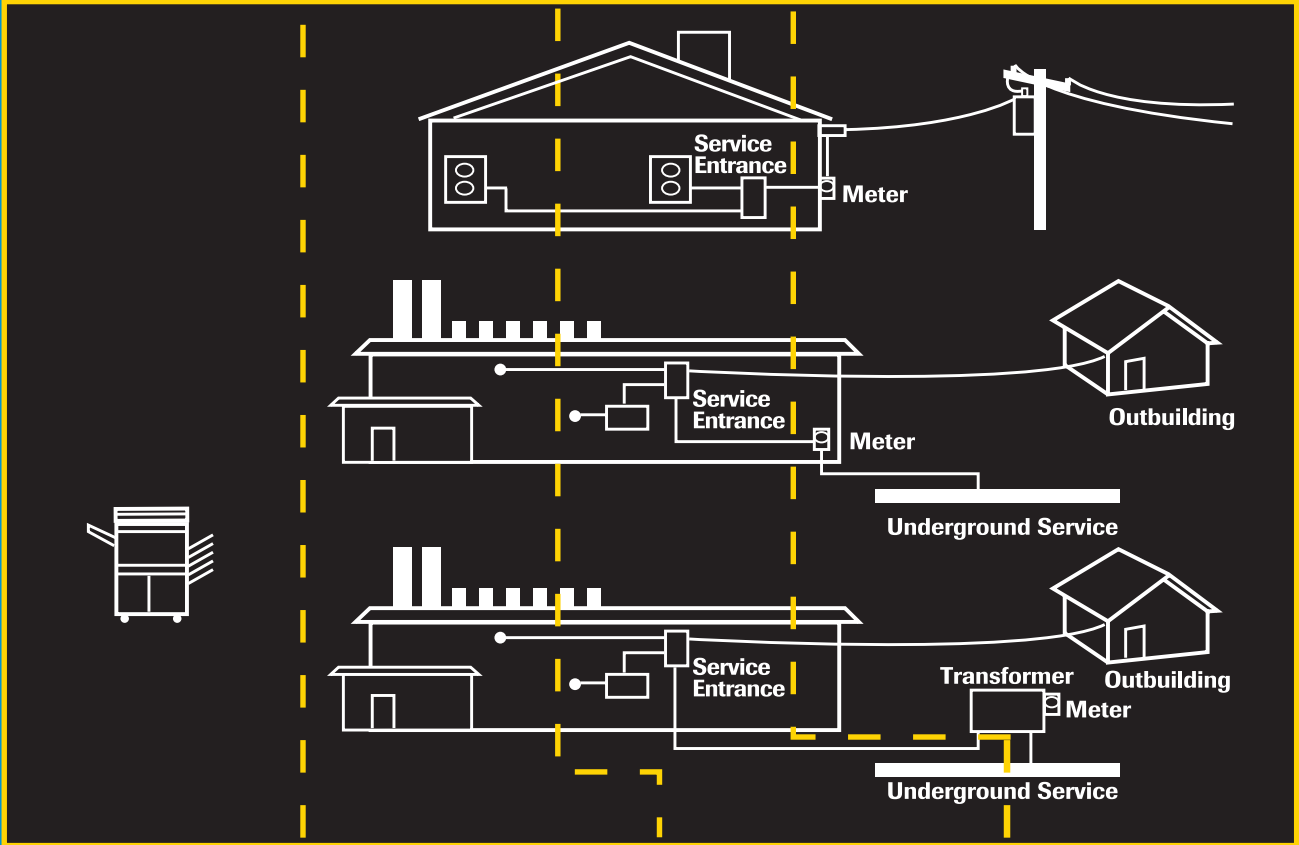


**Category III** – The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600-8,000 volts with a 2 ohm source.



**Category IV** – The primary supply level for the highest levels of transient over voltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600-12,000 volts with less than a 1 ohm source.

Visit [idealind.com](http://idealind.com) for more technical product details, application support, white papers, videos and software.



### CAT I Copiers

- Electronic equipment
- Low energy equipment with transient limiting protection

### CAT II Appliances, PCs, TVs

- Outlets and long branch equipment
- All outlets at more than 10m (30 ft) from Category III source
- All outlets at more than 20m (60 ft) from Category IV source

### CAT III MC Panels

- Feeders and short branch circuits
- Distribution panel devices
- Heavy appliance outlets with “short” connections to service entrance

### CAT IV Exterior Transformers, Meters

- Outside and service entrance
- Service drop from pole to building
- Overhead line to detached building
- Underground line to well pump



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**CHAMPION™**

