



TEST & MEASUREMENT

Clamp Meter Selection Guide

CLAMP METER SELECTION GUIDE	700 Series		740 Series		760 Series		770 Series	
	61-702	61-704	61-744	61-746	61-763	61-765	61-773	61-775
MEASUREMENT FUNCTIONS								
AC Voltage	•	•	•	•	•	•	•	•
DC Voltage	•	•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•
DC Current						•		•
Resistance	•	•	•	•	•	•	•	•
Audible Continuity	•	•	•	•	•	•	•	•
Diode Test	•	•						
Capacitance	•	•			•	•	•	•
Frequency					•	•	•	•
FEATURES								
Display Type (Digital)	D	D	D	D	D	D	D	D
AC Current Capacity	200	200	600	600	660	660	1000	1000
DC Current Capacity						660		1000
True RMS		•		•	•	•	•	•
Auto Ranging	•	•						
Auto/Manual Ranging			•	•	•	•	•	•
Data Hold	•	•	•	•	•	•	•	•
Max Hold	•	•						
Peak Hold					•	•	•	•
Min/Max					•	•	•	•
DCA Zero					•	•	•	•
Auto Power Off	•	•	•	•	•	•	•	•
Non-Contact Voltage Indication	•	•	•	•				
Harmonics Indicator	•	•						
Vibration Mode	•	•						
Backlight		•			•	•	•	•
Low Battery Indication	•	•	•	•	•	•	•	•
High Voltage Warning	•	•			•	•	•	•
Overload Protection on all Ranges	•	•	•	•	•	•	•	•
Conductor Size – Inches (mm)	1.3" (33)	1.3" (33)	1.5" (38)	1.5" (38)	1.4" (36)	1.4" (36)	2.0" (51)	2.0" (51)
Warranty (years)	2	2	2	2	2	2	2	2
CERTIFICATIONS								
UL 61010 Listed	•	•	•	•	•	•	•	•
CAT III, 100V/CAT IV 600V	III	III	III	III	IV	IV	IV	IV
CE	•	•	•	•	•	•	•	•



CLAMP METERS

Clamp-Pro™ Clamp Meters 600 Amp (740 Series)

- Measures up to 600AAC
- Non-contact voltage indicator (70V-600VAC)
- Continuity
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator
- 2-year warranty

61-744



Description	Cat. No.
600A Clamp Meter w/TRMS	61-746
600A Clamp Meter	61-744

Includes: Carrying Case and Test Leads.

Specifications

	Range & Resolution	Accuracy
AC Current	40.00/400.0/600A	1.7%
AC Voltage	400.0/600 V	1.2%
DC Voltage	400.0/600 V	0.5%
Resistance	400.0/4.000k/ 40.00k 400.0k/4.000M/40.00M Ω	1.0%

Jaw opening is 1.25" (32mm).

4-in-1 Test Tools (700 Series)

- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Vibration mode to verify AC voltage
- Harmonics indicator
- Capacitance
- Max hold
- Continuity
- Low battery indication
- Integral lead storage
- Audible dangerous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head
- 2-year warranty

61-704



Description	Cat. No.
4-in-1 Test Tool w/TRMS, Backlight	61-704
4-in-1 Test Tool	61-702

Includes: Carrying Case and Silicone Test Leads.

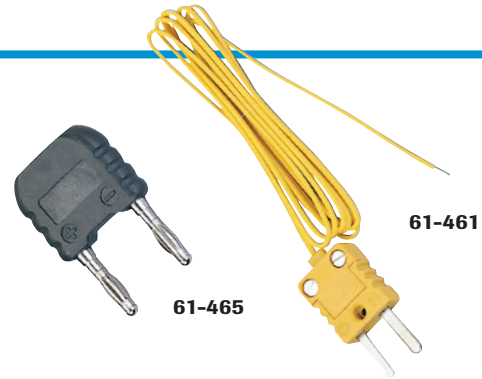
Specifications

	Range & Resolution	Accuracy
AC Voltage	2000m/200.0/750 V	1.2%
DC Voltage	2000m/200.0/1000 V	0.5%
AC Current	200.0 A	3.0%
Resistance	200.0/200.0k Ω	1.0%
Capacitance	200.0μ F	3.0%

Jaw opening is 1.3" (33mm).

Thermocouple

- Measures up to 1500° F (816° C)
- K-type thermocouple plugs into digital multimeter voltage jacks with 61-465 adapter



Description	Cat. No.
Beaded K-type Thermocouple	61-461
Thermocouple Adapter	61-465

Carrying Cases



Description	Cat. No.
Leather Carrying Case - for use with 61-065, 61-076, 61-085, 61-086	61-010
Small Nylon Carrying Case w/four pockets	61-445
Nylon Carrying Case - for use with all Vol-Con® and Vol-Test® Voltage Testers	C-90
Nylon Carrying Case - for use with Digital Multimeters	C-290

Carrying Case Selection Guide

	VOLTAGE TESTERS																														
	61-059	61-065	61-076	61-085	61-086	61-090	61-092	61-096	61-164	61-165	61-310	61-312	61-340	61-342	61-361	61-484	61-486	61-497	61-498	61-610	61-614	61-702	61-704	61-744	61-746	61-763	61-765	61-773	61-775	61-830	
61-179 Nylon Carrying Case									•	•																					•
C-50 Nylon Carrying Case	•																														
C-90 Nylon Carrying Case		•	•	•	•	•	•	•																•	•						
C-230 Nylon Carrying Case																		•	•												
C-290 Nylon Carrying Case											•	•	•	•	•	•	•	•	•	•	•										
C-700 Nylon Carrying Case																							•	•							
C-760 Nylon Carrying Case																										•	•				
C-770 Nylon Carrying Case																													•	•	

Replacement Parts Selection Guide

METER REPLACEMENT PARTS SELECTION GUIDE			090	310	340	360	480	490	600	610	700	740	760	770	790										
			61-096	61-310	61-312	61-340	61-342	61-361	61-484	61-486	61-497	61-498	61-605	61-610	61-614	61-702	61-704	61-744	61-746	61-763	61-765	61-773	61-775	61-795	61-797
FUSES																									
F-1	0.5A (250V)	6.35 x 38mm										•													
F-105	1A (600V)	10.3 x 35mm																						•	
F-310	250mA (250V)	5 x 20mm		•							•														
F-312	500mA (250V)	5 x 20mm			•																				
F-314	10A (250V)	5 x 20mm			•																				
F-340	0.5A (500V)	6.35 x 32mm				•	•																		
F-341	10A (1000V)	10 x 38mm				•	•																		
F-497	440mA (1000V)	10 x 35mm						•	•	•	•														
F-498	11A (1000V)	10 x 38mm						•	•	•	•														
F-797	315mA (1000V)	5 x 32mm																						•	
LA-3893	2A (600V)	6.35 x 25.4mm					•																		
LA-3898	0.25A (500V)	5 x 32mm					•																		
BATTERIES																									
61-201	1.5V (LR44)									•															
—	1.5V (AA)									•	•														
—	1.5V (AAA)			•									•	•									•	•	
—	9V		•	•	•	•	•	•	•	•			•	•				•	•	•	•				
TEST LEADS																									
TL-34	Leads w/pin connectors										•														
TL-56	Test leads										•														
TL-95	Test leads		•																						
TL-100	Test leads w/alligator clips				•	•	•	•	•	•			•	•											
TL-102	Silicone test leads											•	•												
TL-104	Test leads w/large alligator clips											•	•												
TL-310	Test leads			•	•																				
TL-795	Test leads																							•	
TL-797	Test leads																								•

Safety in the Field

The power demands of today's high-tech world have caused a marked increase in occurrences and levels of transient overvoltages. The International Electrotechnical Commission (IEC) has developed a safety standards model for measurement, control and laboratory use.

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 a 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 (proposed) – The primary supply level for the highest levels of transient overvoltage. 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.

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