

Test & Measurement

Crafted for optimum durability, reliability and functionality, our line of test and measurement equipment is engineered with the user in mind. Designed for, and by electricians, our electrical testers provide the latest in innovative, time-saving features that professionals require.

For Professionals.. Since 1857™



Tough Digital Clamp Meters



KLEIN

True RMS Measurement *Technology*



Included:

- Carrying case
- Test leads with CAT III/CAT IV safety
- Thermocouple with adapter (temperature-measuring models only)
- Batteries



- CAT IV 600V, CAT III 1000V, Class 2, Double insulaton safety rating
- Built to withstand a 6.6 ft. (2 m) drop
- Meets requirements for use in basic and controlled electromagnetic environments like residential, office and light-industrial locations
- The **CL600** is an auto-ranging TRMS digital clamp meter that measures AC current via the clamp, and measures AC/DC voltage, resistance, continuity, and tests diodes via test leads
- The **CL700** is an auto-ranging TRMS digital clamp meter that measures AC current via the clamp, and measures AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe. It also features a Low Impedance (LoZ) mode for identifying and eliminating ghost or stray voltages
- The **CL800** is an auto-ranging TRMS digital clamp meter that measures AC/DC current via the clamp, and measures AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe. It also features a Low Impedance (LoZ) mode for identifying and eliminating ghost or stray voltages











Fea	tures	CL600	CL700	CL800
	Drop Protection	6.6 ft. (2 m)	6.6 ft. (2 m)	6.6 ft. (2 m)
: [/ \	Ingress Protection	IP40	IP40	IP40
\triangle	Safety	CAT IV 600V	CAT IV 600V	CAT IV 600V
ĩ	AC Voltage (Volts)	1000V	1000V	1000V
V	DC Voltage (Volts)	1000V	1000V	1000V
Ã	AC Current (Amps)	600A	600A	600A
Ā	DC Current (Amps)	_	_	600A
Ω	Ohms (Resistance)	60ΜΩ	60ΜΩ	60ΜΩ
$\overline{\widetilde{mV}}$	AC Millivolts	_	_	_
mV	DC Millivolts	•	•	•
TRMS	True RMS	•	•	•
•)))	Audible Continuity	•	•	•
	Backlight	•	•	•
ʹϝʹϹ	Temperature	_	-14° – 1000°F (-26° – 538°C)	-14° – 1000°F (-26° – 538°C)
LOW Z	Low Impedance	_	•	•
NCV	Non-Contact Voltage Testing	•	•	•
AUTO	Auto Ranging	•	•	•
RANGE	Range Hold	•	•	•
HOLD	Data Hold	•	•	•
> +	Diode Test	•	•	•
16	Capacitance Test	_	6000 μF	6000 μF
Hz%	Frequency / Duty Cycle	_	1Hz – 500 KHz	1Hz – 500 KHz
MAX/ MIN	Max / Min	•	•	•
	Magnetic Mount	Available As Accessory	Available As Accessory	Available As Accessory
-	Worklight	_	_	•
APO	Auto-Power Off	•	•	•
8888 (CD	LCD Display Count	6000	6000	6000





Digital Clamp Meters



Included:

- Carrying case
- Test leads with CAT III/CAT IV safety caps
- Thermocouple (temperature-measuring models only)
- Batteries



- · CAT III 600V, Class 2, Double insulation safety rating
- Backlit display for clear readings
- Low battery indicator and easily accessible battery compartment
- Meets requirements for use in basic and controlled electromagnetic environments like residential, office and lightindustrial locations
- Built to withstand a 3.3 ft. (1 m) drop
- The CL110 is an auto-ranging digital clamp meter that measures AC current via the clamp, and AC/DC voltage, resistance and continuity via test leads
- The CL210 is an auto-ranging digital clamp meter that measures AC current via the clamp, AC/DC voltage, resistance and continuity via test leads, and temperature via a thermocouple probe
- The CL310 is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe



• The CL330 is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test-leads, and temperature via a thermocouple probe. It features a super bright high visibility dual-line OLED display screen that optimizes viewability in dark or bright environments and when viewed at indirect angles







Fasturas



Fea	atures	CL110	CL210	CL310	CL330
	Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)	3.3 ft. (1 m)	3.3 ft. (1 m)
==/6	Ingress Protection	_	_	_	_
\triangle	Safety	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
$ \widetilde{v} $	AC Voltage (Volts)	600V	600V	600V	600V
V	DC Voltage (Volts)	600V	600V	600V	600V
A	AC Current (Amps)	400A	400A	400A	400A
Ā	DC Current (Amps)	_	_	_	_
Ω	Ohms (Resistance)	20ΜΩ	20ΜΩ	40ΜΩ	40ΜΩ
mV	AC Millivolts	•	•	_	_
$\overline{\widetilde{mV}}$	DC Millivolts	•	•	•	•
TRMS	True RMS	_	_	•	•
•)))	Audible Continuity	•	•	•	•
	Backlight	•	•	•	•
۴°C	Temperature	_	-40° - 1832°F (-40° - 1000°C)	-40° - 1832°F (-40° - 1000°C)	-40° - 1832°F (-40° - 1000°C)
LOW Z	Low Impedance	_	_	_	_
NCV	Non-Contact Voltage Testing	_	_	_	_
AUTO	Auto Ranging	•	•	•	•
RANGE	Range Hold	•	•	•	•
HOLD	Data Hold	•	•	•	•
+	Diode Test	_	_	•	•
46	Capacitance Test	_	_	4000 μF	4000 μF
Hz%	Frequency / Duty Cycle	_	_	10Hz – 1MHz	10Hz – 1MHz
MAX/ MIN	Max / Min	MAX only	MAX only	•	•
	Magnetic Mount	_	_	_	_
	Worklight	_	_	_	_
AP0	Auto-Power Off	•	•	•	•
8888 8888	LCD Display Count	2000	2000	4000	_
4000 OLED	OLED Display Count	_	_	_	4000
luut	Bar Graph	_	_	_	•







Clamp Meters

Clamp Meter Specifications

Cat. No.	Safety Rating	Batteries	Jaw Size	Height	Width	Depth	Weight	Included Accessories
CL110	CAT III 600V	3 x AAA	1-1/8" (28.6 mm)	8-45/64" (221.1 mm)	3-1/64" (76.6 mm)	1-39/64" (40.9 mm)	10.1 oz. (286 g)	Carrying Case, 41" (1041.4 mm) Test Leads and Batteries
CL210	CAT III 600V	3 x AAA	1-1/8" (28.6 mm)	8-45/64" (221.1 mm)	3-1/64" (76.6 mm)	1-39/64" (40.9 mm)	10.1 oz. (286 g)	Carrying Case, 41" (1041.4 mm) Test Leads, Thermocouple with Adapter, and Batteries
CL310	CAT III 600V	3 x AAA	1-1/8" (28.6 mm)	8-45/64" (221.1 mm)	3-1/64" (76.6 mm)	1-39/64" (40.9 mm)	10.1 oz. (286 g)	Carrying Case, 41" (1041.4 mm) Test Leads, Thermocouple with Adapter, and Batteries
CL330 NEW!	CATIII 600V, Class 2, Double insulation	3 x AAA	1-1/8" (28.6 mm)	8-21/32" (219.9 mm)	3-1/32" (77.0 mm)	1-39/64" (40.9 mm)	9.9 oz. (281 g)	Pouch, 41" (1041.4 mm) Test Leads, Thermocouple, and Batteries
CL600	CAT IV 600V	2 x AAA	1-3/8" (34.9 mm)	9-3/32" (231.0 mm)	3-13/16" (96.8 mm)	1-35/64" (39.3 mm)	11.8 oz. (335 g)	Carrying Case, 41" (1041.4 mm) Test Leads and Batteries
CL700	CAT IV 600V	2 x AAA	1-3/8" (34.9 mm)	9-3/32" (231.0 mm)	3-13/16" (96.8 mm)	1-35/64" (39.3 mm)	11.8 oz. (335 g)	Carrying Case, Test Leads, Thermocouple with Adapter, and Batteries
CL800	CAT IV 600V	2 x AAA	1-3/8" (34.9 mm)	9-3/32" (231.0 mm)	3-13/16" (96.8 mm)	1-35/64" (39.3 mm)	12.5 oz. (354 g)	Carrying Case, 41" (1041.4 mm) Test Leads, Thermocouple with Adapter, and Batteries

Electrical Maintenance & Test Kit

- Cat. No. RT210 detects the most common wiring problems in standard and GFCI receptacles including open ground, reverse polarity, open hot, open neutral, and hot/ground reversed
- Cat. No. 69409 Line splitter 10x allows the measuring of current draw up to 15A without splitting the load's power cord
- Cat. No. CL110 has CAT III 600V, Class 2, Double insulation safety rating and features a backlit display for clear readings
- RT210 withstands a 6.6 ft. (2 m)
- Includes a carrying case, test leads and batteries









Cat. No.	Batteries	Height	Width	Depth
CL110	3 x AAA	8-45/64" (221.1 mm)	3-1/64" (76.6 mm)	1-39/64" (40.9 mm)
RT210	N/A	2-7/8" (73.0 mm)	1-7/8" (47.6 mm)	1-5/8" (41.3 mm)
69409	N/A	4-43/64" (118.7 mm)	2-9/32" (57.9 mm)	1" (25.4 mm)

For additional specifications see individual product pages (CL110 - page 207, RT210 - page 215, 69409 - page 219).



CL110KIT

△WARNINGS:

Cat. No. Kit Contains

CL110KIT

To ensure safe operation and service of the tester, follow these instructions. Failure to observe these warnings can result in severe injury or death.

- · Before each use, verify meter operation by measuring a known voltage or current.
- · Never use the meter on a circuit with voltages that exceed the category based rating of this meter.
- · Do not use the meter during electrical storms or in wet weather.
- · Do not use the meter or test leads if they appear to be damaged.
- . Ensure meter leads are fully seated, and keep fingers away from the metal probe contacts when making measurements.
- · Do not open the meter to replace batteries while the probes are connected.
- Use caution when working with voltages above 60V DC, or 25V AC RMS. Such voltages pose a shock hazard.
- . To avoid false readings that can lead to electrical shock, replace batteries if a low battery indicator appears.
- · Unless measuring voltage or current, shut off and lock out power before measuring resistance or capacitance.
- · Always adhere to local and national safety codes. Use individual protective equipment to prevent shock and arc blast injury where hazardous live conductors are exposed.





Specialty Clamp Meters

1000A AC/DC TRMS Clamp Meter (CL2500)

- Extra wide jaw opening accommodates a greater measuring area
- True RMS accurate readings for all signals
- Worklight in jaw area



200A AC Fork Meter (CL3200)

- Extra large jaw opening accepts 3/0 wire
- Short jaw depth for increased access in tight spaces
- Worklight by jaw illuminates work space









Feat	ures	CL2500 1000A AC/DC	CL3200 200A AC Fork Meter
	Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)
= / \	Ingress Protection	IP42	IP30
\triangle	Safety	CAT IV 600V	CAT IV 600V
v	AC Voltage (Volts)	750A	750A
V	DC Voltage (Volts)	1000V	1000V
\widetilde{A}	AC Current (Amps)	1000A	200A
A	DC Current (Amps)	1000A	-
Ω	Ohms (Resistance)	60ΜΩ	40ΜΩ
TRMS	True RMS	•	_
•)))	Audible Continuity	•	•
	Backlight	•	•
LOW Z	Low Impedance	_	•
NCV	Non-Contact Voltage Testing	•	•
AUTO	Auto Ranging	_	•
RANGE	Range Hold	•	•
HOLD	Data Hold	•	•
+	Diode Test	•	_
46	Capacitance Test	6000µF	_
Hz %	Frequency / Duty Cycle	•	_
MAX/ MIN	Max / Min	•	_
	Magnetic Mount	•	•
	Worklight	•	•
AP0	Auto-Power Off	•	•
limt	Bar Graph	•	•
8888	LCD Display Count	6000	4000

Cat. No.	NIST certified	Safety Rating	Batteries	Jaw Size	Height	Width	Depth	Weight	Included Accessories
CL2500	_	CAT IV 600V	2 x AAA	1.97" (50.03 mm)	8.09" (205.48 mm)	2.56" (65.02 mm)	1.38" (35.05 mm)	13.6 oz. (386 g)	Test Leads, Case and Batteries
CL3200	_	CAT IV 600V	2 x AAA	0.63" (16 mm)	7.06" (179.32 mm)	2.56" (65.02 mm)	1.34" (34.03 mm)	7.9 oz. (224 g)	Test Leads, Case and Batteries





Tough Digital Multimeters







Included:

- Carrying case
- Test leads with CAT III/CAT IV safety caps
- Alligator clips
- Thermocouple with adapter
- Batteries



- Backlit LCD display screen
- CAT IV 600V safety rating
- Built to withstand a 6.6' (2 m) drop
- For use in basic and controlled electromagnetic environments like residential, office and light-industrial locations
- Low battery indicator and easily accessible battery and fuse replacement compartment
- The MM600 is an auto-ranging digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, duty-cycle, tests diodes and continuity
- The MM700 is an auto-ranging True Root-Mean-Squared (TRMS) digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, dutycycle, and tests diodes and continuity







Features	MM600	MM700
Drop Protection	6.6 ft. (2 m)	6.6 ft. (2 m)
Ingress Protection	IP42	IP42
Safety	CAT IV 600V	CAT IV 600V
AC Voltage (Volts)	1000V	1000V
DC Voltage (Volts)	1000V	1000V
AC Current (Amps)	10A	10A
DC Current (Amps)	10A	10A
Ohms (Resistance)	40ΜΩ	40ΜΩ
DC Millivolts	•	•
MA AC Milliamps	•	•
mA DC Milliamps	•	•
AC Microamps	•	•
DC Microamps	•	•
TRMS True RMS	_	•
Audible Continuity	•	•
Backlight	•	•
		00 150005
°F°C Temperature	0° – 1000°F (-18° – 538°C)	0° – 1500°F (-18° – 816°C)
F°C Temperature Low Low Impedance		0° – 1500°F (-18° – 816°C)
Low		0° – 1500°F (-18° – 816°C)
Low Impedance		0° - 1500°F (-18° - 816°C)
Low Impedance AUTO Auto Ranging		0° - 1500°F (-18° - 816°C)
Low Impedance AUTO Auto Ranging RANGE Range Hold		0° - 1500°F (-18° - 816°C)
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold		0° - 1500°F (-18° - 816°C) • • • • • • • • • • • • • • • • • • •
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold Diode Test	(-18° – 538°C) — • •	(-18° – 816°C) • •
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold The Diode Test Capacitance Test	(-18° – 538°C) — • 1000 μF	(-18° – 816°C) • • 4000 μF
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold HOLD Diode Test Capacitance Test Hz/. Frequency / Duty Cycle	(-18° – 538°C) — • 1000 μF	(-18° – 816°C) • • 4000 μF
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold H Diode Test Capacitance Test Hz/. Frequency / Duty Cycle MAXY MAX / Min	(-18° – 538°C) — • 1000 μF	(-18° – 816°C) • • 4000 μF
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold HC Capacitance Test Hz/. Frequency / Duty Cycle MAX/ Min LERA Lead Warning	(-18° – 538°C) — • 1000 μF	(-18° – 816°C) • • 4000 μF
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold The Diode Test Capacitance Test Hz/: Frequency / Duty Cycle MAXY Max / Min LERG Lead Warning Intell Bar Graph	(-18° – 538°C) — 1000 µF 1Hz – 500 KHz Available As	(-18° – 816°C) 4000 μF 1Hz – 500 KHz Available As
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold I Diode Test Capacitance Test Hz/. Frequency / Duty Cycle MAX/ Max / Min LERG Lead Warning IIIII Bar Graph Magnetic Mount	(-18° – 538°C) — 1000 µF 1Hz – 500 KHz Available As	(-18° – 816°C) 4000 μF 1Hz – 500 KHz Available As
Low Impedance AUTO Auto Ranging RANGE Range Hold HOLD Data Hold HC Capacitance Test Hz/. Frequency / Duty Cycle MAX/ Min LERA Lead Warning IIIII Bar Graph APO Auto-Power Off	(-18° – 538°C) — 1000 µF 1Hz – 500 KHz Available As	(-18° – 816°C) 4000 μF 1Hz – 500 KHz Available As



Digital Multimeters







Included:

- Test leads with CAT III/CAT IV safety caps
- Thermocouple with adapter (temperature-measuring models only)
- Batteries



- CAT III 600V safety rating
- Built to withstand a 3.3 ft. (1 m) drop
- For use in basic and controlled electromagnetic environments like residential, business and light-industrial locations
- Low battery indicator and easily accessible battery compartment
- The MM300 is a manual-ranging digital multimeter that measures AC/DC voltage, DC current, and resistance. It also tests diodes and continuity, and has a battery test mode
- The MM400 is an auto-ranging digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, duty-cycle, and tests diodes and continuity



Features	MM300 Manual Ranging	MM400 Auto Ranging
Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)
Ingress Protection	_	_
Safety	CAT III 600V	CAT III 600V
AC Voltage (Volts)	600V	600V
DC Voltage (Volts)	600V	600V
AC Current (Amps)	_	10A
DC Current (Amps)	10A	10A
Ohms (Resistance)	20ΜΩ	40ΜΩ
DC Millivolts	•	•
MA AC Milliamps	_	•
mA DC Milliamps	•	•
MA AC Microamps	_	•
DC Microamps	•	•
TRMS True RMS	_	_
•)) Audible Continuity	•	•
- Backlight	_	•
°F°C Temperature	_	0° – 1000°F (-18° – 538°C)
Low Impedance	_	_
AUTO Auto Ranging	_	•
RANGE Range Hold	_	•
HOLD Data Hold	•	•
Diode Test	•	•
	_	200 μF
Hz% Frequency / Duty Cycle	_	1Hz – 50 KHz
MAX/ MIN Max / Min	_	•
LEAd Lead Warning	_	_
IIIII Bar Graph	_	_
Magnetic Mount	Available As Accessory	Available As Accessory
APO Auto-Power Off	_	•
Battery Test	•	_
LCD Display Count	2000	4000
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Multimeters

Multimeter Specifications

Cat. No.	Safety Rating	Batteries	Height	Width	Depth	Weight	Included Accessories
MM300	CAT III 600V	2 x AAA	6" (152.4 mm)	3-1/6" (77.8 mm)	1-25/32" (45.2 mm)	8.1 oz. (230 g)	Test Leads and Batteries
MM400	CAT III 600V	2 x AAA	6" (152.4 mm)	3-1/6" (77.8 mm)	1-25/32" (45.2 mm)	8.1 oz. (230 g)	Test Leads, Batteries and Thermocouple
MM600	CAT IV 600V	2 x AAA	7" (177.8 mm)	3-35/64" (90.1 mm)	2-3/32" (53.2 mm)	14.4 oz. (408 g)	Carrying Case, Test Leads, Thermocouple, and Batteries
MM700	CAT IV 600V	2 x AAA	7" (177.8 mm)	3-35/64" (90.1 mm)	2-3/32" (53.2 mm)	14.4 oz. (408 g)	Carrying Case, Test Leads, Thermocouple, Batteries, and Alligator Clips

Multimeter Replacement Fuses





69033

Cat. No.	For Use With	Fuse Type
69191	MM1000, MM1300, MM2000, MM2300, MM6000	F 11A/1000V
69192	MM1000, MM1300, MM2000, MM2300, MM6000	F 440mA/1000V
69193	MM100 Fuse Kit	F10A/500V, F250mA/250V
69194	MM200 Fuse Kit	F10A/500V, F400mA/250V
New Test and Measuremen	nt Instruments	
69031	MM300	5x20 200MA 600V
69032	MM300, MM400	6x32 10A 600V
69033	MM400	5x20 500MA 600V
69034	MM600, MM700	10x38 10A 1000V
69035	MM600, MM700	6x32 500MA 1000V

Electrical Test Kit

- The MM300 multimeter was developed to withstand daily wear and tear on the job site, and has a safey rating of CAT III 600V, Class 2, Double insulation
- The NCVT-1 has a bright green LED to indicate the tester is working; it changes to red and warning tones sound when voltage is detected
- NCVT-1 has a digitally-controlled ON/OFF power button and auto power-off feature to conserve and extend battery life
- Receptacle tester detects wiring configurations and indicates correct wiring, open ground, open hot, open neutral, hot/ground reversed; it does not indicate quality of ground, multiple hot wires, or a combination of defects
- Includes visual and audible continuity indicators up to 25Ω
- Includes test leads and batteries

Cat. No. Set Contains

69149











Cat. No.	Batteries	Height	Width	Depth
MM300	2 x AAA	6" (152.4 mm)	3-1/6" (77.8 mm)	1-25/32" (45.2 mm)
NCVT-1	2 x AAA	1" (25.4 mm)	23/32"(18.3 mm)	23/32"(18.3 mm)
Receptacle testor	N/A	2.75" (69.9 mm)	1.5" (38.1 mm)	1" (25.4 mm)

For additional specifications see individual product pages (MM300 - page 211, NCVT-1 - page 214)

△WARNINGS:

To ensure safe operation and service of the tester, follow these instructions. Failure to observe these warnings can result in severe injury or death.

- · Before each use, verify meter operation by measuring a known voltage or current.
- · Never use the meter on a circuit with voltages that exceed the category based rating of this meter.
- . Do not use the meter during electrical storms or in wet weather.
- · Do not use the meter or test leads if they appear to be damaged.
- Ensure meter leads are fully seated, and keep fingers away from the metal probe contacts when making measurements.
- . Do not open the meter to replace batteries while the probes are connected.
- Use caution when working with voltages above 60V DC, or 25V AC RMS. Such voltages pose a shock hazard.
- To avoid false readings that can lead to electrical shock, replace batteries if a low battery indicator appears.
- · Unless measuring voltage or current, shut off and lock out power before measuring resistance or capacitance.
- Always adhere to local and national safety codes. Use individual protective equipment to prevent shock and arc blast injury where hazardous live conductors are exposed.





Electrical Testers

Electronic Voltage Testers

- Measures AC and DC voltage at nine common levels up to 600V
- Bright LEDs indicate voltage reading without batteries installed
- · Low impedance input reduces possibility of ghost voltages
- · Permanently secured test leads are always there when they are needed
- Molded lead holders are perfect for easy measurements of tamper-proof outlets
- · Probe wires with wear indicators built in
- Vibration and sound alerts for dangerous voltage levels
- Modern solid-state construction provides CAT IV 600V safety rating
- Bright light illuminates work area
- Audible continuity alerts at less than 270kΩ







Cat. No.	Safety Rating	Batteries	Height	Width	Depth	Weight
ET200	CAT IV 600V	3 x AAA	7-3/8" (187.32 mm)	2-3/8" (60.32 mm)	1-1/4" (31.75 mm)	8.1 oz. (230 g)

Digital Circuit Breaker Finder

- Quickly, accurately, and automatically find the corresponding circuit breaker of any standard 120V outlet
- For use on powered circuits only
- Does not require interruption of service
- Bright green arrow and loud beep provide clear indication of correct breaker
- Strong transmitter reaches distances up to 1000 ft. (305 m)
- Optional Circuit Breaker Finder Accessory Kit (Cat. No. 69411) refer to page 218: Find breakers of light fixtures and bare wires with light socket and alligator clip adapters





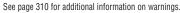


ET300

215

LISTED
4000907

Cat. No.	Height	Width	Depth	Weight
ET300	Receiver: 6" (152.4 mm)	Receiver: 2" (50.8 mm)	Receiver: 57/64" (22.6 mm)	Receiver: 3.2 oz. (91 g)
	Transmitter: 2-51/64" (71.0 mm)	Transmitter: 1-57/64" (48.0 mm)	Transmitter: 1-13/64" (30.6 mm)	Transmitter: 1.6 oz. (45 g)









Electrical Testers

Non-Contact Voltage Testers (NCVT-1/NCVT-2)

- Non-contact detection of standard voltage (48-1000V AC) in cables, cords, circuit breakers, lighting fixtures, switches, outlets, and wires
- High intensity, bright green LED indicates the tester is operational and aids in illuminating the workspace
- Microprocessor controlled low-battery indicator
- Digitally controlled ON/OFF power button
- Auto Power-Off feature conserves and extends battery life
- Lightweight, durable polycarbonate plastic resin construction with a convenient pocket-clip
- 9.8 ft. (3 m) drop protection
- CAT IV 1000V safety rating provides expanded operation and protection
- Does NOT detect DC voltage

Additional Features for Dual Range NCVT-2

- Automatically detects and indicates low voltage (12 48 Volts AC) and standard voltage (48 - 1000 Volts AC), allowing broad application
- Non-contact detection of low-voltage in security, entertainment, communications, environmental control, and irrigation systems

Voltage Range	12 - 48 VOLTS AC (Low) NCVT-2 only	50 - 1000 VOLTS AC (Standard)
Audible	low-pitched pulsing beeping sound	high-pitched continuous beeping sound
Visual	blue LED turns off and red LED blinks (approximately 2x per second).	green LED turns off and red LED illuminates continuously.











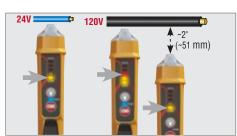
NCVT-3

Cat. No.	Voltage Range	Frequency Range	Pollution Degree	Batteries	Overall Length	Width	Height	Weight	Weight w/Batteries
NCVT-1	50 - 1000V AC	50 - 500 Hz	2	2 x AAA	5-1/2" (139.7 mm)	23/32"(18.3 mm)	1" (25.4 mm)	0.8 oz (23 g)	1.6 oz. (45 g)
NCVT-2	12 - 1000V AC	50 - 500 Hz	2	2 x AAA	5-1/2" (139.7 mm)	23/32"(18.3 mm)	1" (25.4 mm)	0.8 oz (23 g)	1.6 oz. (45 g)

Non-Contact Voltage Tester with Flashlight (NCVT-3)

- Non-contact detection of voltage (12 1000V AC) in cables, cords, circuit breakers, light fixtures, switches, outlets and wires as well as voltage in security, entertainment, communications, environmental control and irrigation systems
- The visual indicator of the presence of voltage is an LED bar graph the higher the voltage sensed, or the closer to the voltage source, the more LEDs light up
- Bright flashlight illuminates work area and may be used independent of NCVT
- Auto Power-Off feature conserves and extends battery life
- Lightweight, compact tool with pocket clip provides easy storage and quick access
- IP67: Dustproof and waterproof
- 6.6 ft. (2 m) drop protection
- CAT IV 1000V safety rating
- Does NOT detect DC voltage





KLEIN TOOLS





Cat. No.	Voltage Range	Frequency Range	Pollution Degree	Batteries	Overall Length	Width	Height	Weight	Weight w/Batteries
NCVT-3	12 - 1000V AC	50 - 500 Hz	2	2 x AAA	5-53/64" (148.0 mm)	23/32"(18.3 mm)	5-7/8" (149.2 mm)	1.2 oz. (34 g)	2.5 oz. (71 g)







Receptacle Testers

- Light sequence indicates correct/incorrect wiring
- Conforms to UL Std 1436, Certified to CSA Std C22.2 #160
- Operating temp: 32°F to 140°F (0°C to 40°C)
- Built to withstand a 6.6 ft. (2m) drop
- Nominal Voltage: 110/125V AC at 50/60Hz in 3-wire outlet
- Designed to detect the most common wiring problems in standard receptacles
- Cat. No. RT210 works on GFCI outlets and confirms operation of the ground fault





RT110 RT210

Continuity Tester



69133

Low-Voltage Tester

69127

- Quickly reveals shorts or broken circuits in all types of
- Bulb in handle glows when circuit is complete (bulb included)
- Pointed 3-3/4" (95 mm) probe gets right to the problem
- Deluxe 4" (102 mm) long handle with removable nylon cap holds replaceable bulb and battery
- 36" (915 mm) test lead with alligator clip
- Uses one AAA battery (not included)
- Proudly built in U.S.A. with global components

,	9 ,
electrical devices and controls	 Tests for shorts in automotive and truck electrical systems, motor field
Tests for continuity of circuit with power off	coils, radio and low-voltage circuits, ground circuits of all lamps, wiring,
Pulls in handle glove when circuit is complete (bulls included)	fuses, etc.

- Bulb in handle glows when circuit is complete (bulb included)
- Pointed 3-3/4" (95 mm) probe makes checking easier

Device for checking live 6-24V, AC or DC circuits

- Deluxe 3-1/2" (89 mm) long handle with nylon top holds replaceable bulb
- 36" (915 mm) test lead with alligator clip

CE

Proudly built in U.S.A. with global components

Cat. No.	Overall Length	Weight
69133	43-3/4" (111.3 mm)	0.2 oz. (5.7 g)
Replacement	Part	
69131	replacement bulb for Cat. No. 69133	0.04 oz. (1.1 g)

Cat. No.	Overall Length	Weight
69127	43-1/4" (1098.6 mm)	0.2 oz. (5.7 g)
Replacement	Part	
69130	replacement bulb for Cat. No. 69127	0.01 oz. (0.3g)

Circuit Tester



69105

- Tests circuits rated from 80 to 600 volts AC/DC
- High-visibility neon lamp indicator
- High-impact, sealed 5-11/16" (144 mm) probe on long 24" (610 mm) leads for convenience in testing motors, fuses, relays, switches, etc.
- Resistor between each probe and lead

Cat. No.	Overall Length with Probes	Weight
69105	35" (889.0 mm)	2.4 oz. (68 g)

Low-Voltage Twin-Lead Tester

- Tests 5-50 volt, AC or DC circuits and components
- Built-in lamp glows if circuit is live
- Each of the 4-1/2" (114 mm) test leads has an alligator clip on the end
- Handy pocket clip



Cat. No.	Overall Length	Weight
69134	8" (203.2 mm)	0.08 oz. (2.3 g)

See page 310 for additional information on warnings.





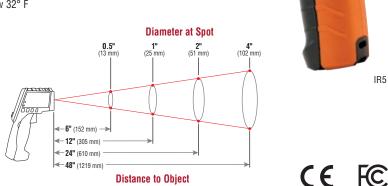


Specialty Testers

IR5 Dual Laser Infrared Thermometer

- Optical Resolution (Distance-to-spot) is 12:1
- Features include dual-laser targeting, auto-scan, max/min/avg/diff, high/low alarm, backlit display, auto power-off
- Drop protection to 6.6 ft. (2 m)
- Measurement Range: -22° to 752°F (-30° to 400°C)
- Uses one 9-volt battery, with battery life expectancy at 10 hours of continuous use with laser and backlight on
- Includes custom pouch and batteries
- Certified to IEC EN 61326-1:2006, EN608251:1994+A2:2001+A1:2002
- Adjustable emissivity
- Soft-touch, over-mold housing
- For ambient temperatures above freezing, the accuracy is +/- 4° F or +/- 2%;
 Accuracy below freezing is +/- 4° F plus 0.2 degrees per degree below 32° F

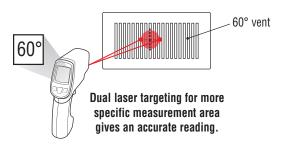


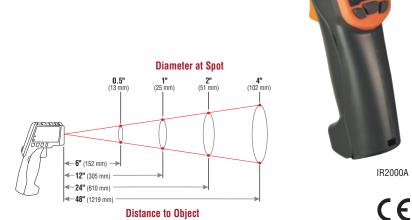


Cat. N	0.	Batteries	Height	Width	Depth	Weight
IR5	NEW!	1 x 9V	6-53/64" (173.4 mm)	1-27/32" (46.9 mm)	4-17/32" (115.1 mm)	9.8 oz. (278 g)

12:1 Dual Laser Infrared Thermometer

- Dual lasers for specific measurement areas
- Tight (12:1) distance-to-spot ratio for accurate target area temperature measurements
- Features a wide temperature measurement range: -76° to 1022°F (-60° to 550°C)
- K-type thermocouple range: -83.2° to 2552°F (-64° to 1400°C)
- Auto-scan and Max / Min / Average / Differential calculations
- Includes a temperature °F/°C button
- Has both a backlit display and worklight
- 6.6 ft. (2 m) drop protection
- Accessories included: case, K-type thermocouple and batteries





Cat. No.	Batteries	Height	Width	Thickness	Weight
IR2000A	2 x AAA	6.76" (171.70 mm)	1.87" (47.49 mm)	1.87" (47 mm)	9.0 oz. (255 g)



Specialty Testers

Video Borescope

- Use the Video Borescope to view inaccessible areas
- It features video, audio, photo recording, file playback, a durable camera snake with an adjustable work light, and video output capabilities
- Other features include screen rotation, adjustable LED worklight, TV-out and SD card
- IP67: Dustproof and waterproof camera
- Multiple Applications: Electrical, HVAC, Plumbing, Automotive, Aircraft. Use to view inaccessible areas: inside a wall, down the drain, in furnace or vent
- Package contents: Video Borescope, 17 mm gooseneck camera, Rechargeable lithium ion battery, Mirror camera attachment, Hook camera attachment, Magnet camera attachment, USB data & power adapter/charger, RCA composite to 3.5 mm mini A/V cable, Quick start guide, Software/instruction manual CD-ROM, Carrying case











ET500

Cat. No.	Batteries	Height	Width	Depth	Weight
ET500	2 x AAA	7" (177.8 mm)	3-1/4" (82.6 mm)	1-3/4" (44.5 mm)	8.1 oz. (230 g)

Borescope

- Use the borescope to view inaccessible areas
- It features a durable camera snake, a high resolution screen, mirror image and an adjustable LED work light
- IP67: Dustproof and waterproof camera
- Multiple Applications: Electrical, HVAC, Plumbing, Automotive, Aircraft. Use to view inaccessible areas: inside a wall, down the drain, in furnace or vent
- Package contents: Borescope, 17 mm gooseneck camera, Rechargeable lithium ion battery, Mirror camera attachment, Hook camera attachment, Magnet camera attachment, USB data adapter/charger, USB power adapter/ charger, Instruction manual



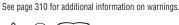




- **Multiple Applications!**
- Electrical
- HVAC
- Plumbing
- Automotive
- Aircraft
- Use to view inaccessible areas:
 - Inside a wall
 - Down the drain
 - In furnace or vent

 Cat. No.
 Batteries
 Height
 Width
 Depth
 Weight

 ET510
 Lithium-ion
 6-17/32" (165.9 mm)
 2-27/32" (72.2 mm)
 1-35/64" (39.3 mm)
 8.1 oz. (230 g)









Test & Measurement Line Accessories

Circuit Breaker Finder Accessory Kit



69411

- For use with ET300 Digital Circuit Breaker Finder refer to page 213
- Light socket adapter for finding the corresponding circuit of a lighting fixture
- Alligator clip adapter enables use of Digital Circuit Breaker Finder on bare wires

Cat. No.	Weight
69411	2.1 oz. (60 g)

Test Lead Set

- Each lead has alligator clips attached to both ends
- Multi-purpose tooth pattern for better gripping of wires and test points



Cat. No.	Overall Length	Weight
69128	32" (812.8 mm)	6.4 oz. (181.4 g)

Replacement Test Lead Sets

- Safety Rating: Category IV 600V and CAT III 1000V
- Screw-on alligator clips attach to wires and other conductors
- Intended for use as replacement test leads for meters that have standard, banana-type input jacks
- Leads are 41" (1,041 mm) long
- Cat. No. 69410 replacement test-lead set for MM300, MM400, MM600 and MM700
- Cat. No. 69418 replacement test-lead set for CL110, CL210, CL310, CL600, CL700 and CL800
- The leads perform accurately with Klein Tools' meters and other manufacturer's meters

Cat. No.	Overall Length	Weight
69410	41" (1041.4 mm)	3.2 oz. (91 g)
69418	41" (1041.4 mm)	3.4 oz. (96 g)



Replacement K-Type Thermocouples

- This UL® listed replacement thermocouple (Cat. No. 69028) is for use with Klein Tools multimeters and clamp meters as shown on list below
- Temperature measurement range is 0-250° Celsius
- Leads compatible with and fit lead storage compartments on most Klein meters



Cat. No.	Туре	Multimeter	Clamp Meter	IR Gun	DTL	Weight
69028	K-Type Banana Thermocouple	MM200, MM400, MM600, MM700, MM1000, MM1300, MM2000, MM2300, MM6000	CL200, CL210, CL310, CL330, CL700, CL800 CL1300, CL2300	_	_	0.7 oz. (20 g)
69413	K-Type Thermocouple	_	CL1100, CL2100	IR2000, IR2000A, IR3000	_	0.2 oz. (5.7 g)
69414	DTL K-Type Thermocouple	_	_	_	DTL302, DTL304	0.2 oz. (5.7 g)



Test & Measurement Line Accessories

6 mm Borescope Camera



IP67: Dustproof and waterproof camera

69450

- Bright LED worklight
- Gooseneck design for greater control and positioning
- Smaller footprint when penetrating walls and panels

Cat. No.	Dimensions	Weight
69450	6 mm x 1 m (0.23" x 3.28')	3.5 oz. (99 g)
69451	6 mm x 2 m (0.23" x 6.56')	5.5 oz. (156 g)



- IP67: Dustproof and waterproof camera
- Bright LED worklight
- Gooseneck design for greater control and positioning

Cat. No.	Dimensions	Weight
69454	17 mm x 1 m (0.66" x 3.28')	9.5 oz. (269 g)

1 Meter Borescope Camera Extension

- Extends the reach of 17 mm and 6 mm borescope cameras
- Up to two extensions can be used with 17 mm camera without loss of video quality, to 9.9 ft. (3 m)
- Maximum of four extensions plus camera

Cat. No.	Dimensions	Weight
69455	17 mm x 1 m (0.66" x 3.28')	9.3 oz. (264 g)

Borescope Attachment Tools

Compatible with 17 mm diameter camera



Cat. No.	Weight	Included
69457	0.4 oz. (11.0 g)	1-5/8" (41.3 mm) Mirror Camera Attachment, 3" (76.2 mm) Hook Camera Attachment, 3-1/4" (82.6 mm) Magnet Camera Attachment

Line Splitter 10x

- Allows the measuring of current draw up to 15A without splitting the load's power cord
- For use with all Klein Tools clamp meters and othe manufacture clamp meters
- Can be used to perform voltage checks with standard multimeter probes
- Provides 10X measurement mode
- For North American-style outlets only

MARNINGS:

. Do NOT use with loads greater than 15A.

Risk of electric shock and burn. Contact with live circuits could result in death or serious injury.
Do not use if line splitter appears damaged. If in doubt, replace line splitter. Do NOT use line splitter if wet. For indoors use only.

Cat. No.	Height	Width	Depth	Weight
69409	4-43/64" (118.7 mm)	2-9/32" (57.9 mm)	1" (25.4 mm)	3.9 oz. (111 g)





69409

69454

See page 310 for additional information on warnings.







Test & Measurement Line Accessories

Magnetic Hangers

- Durable nylon weave resists wear and tear
- · Constructed with powerful rare earth magnets
- Has a secure loop & hook
- Hanger allows the user to safely work hands-free
- Cat. No. 69190 clips securely into back of rubber boot

Cat. No.	Application	For Use With	Weight
69417	Electrician's Multimeters and Select Clamps	MM300, MM400, MM600, MM700, CL600, CL700, CL800	1.1 oz. (31 g)
69190	Electrician's Previous Generation Multimeters	MM1000, MM1300, MM2000, MM2300	1.1 oz. (31 g)







69417

Tradesman Pro™ Hard Cases

- Hard shell protects tools, meters, small parts and tech devices
- Soft interior lining
- Durable zipper closure

Cat. No.	Width	Height	Depth	Weight
5184	6-1/2" (165.1 mm)	8-3/4" (222.3 mm)	2-1/4" (57.2 mm)	10.1 oz. (286 g)
5189	5-1/2" (139.7 mm)	10-1/4" (260.4 mm)	2-1/4" (57.2 mm)	10.1 oz. (286 g)

5184 5189

Tradesman Pro™ Carrying Cases

- Two layers of padding protect even delicate instruments
- · Heavy-duty zipper and rugged PVC coated polyester for durability
- Pockets for quick access and organization
- Cat. No. 69406 has loop with snap closure to attach to belts, bags and backpacks
- Cat. Nos. 69407 and 69408 have sturdy handle with box stitching for secure transportation and convenient hanging
- Cat. Nos. 69406 and 69407 recommended for meters, testers, infrared guns, and small tools
- Cat. No. 69408 recommended for meters, testers, infrared guns, tools, and borescopes

Cat. No.	Pockets	Width	Height	Depth	Weight
69406	1	4-1/2" (114.3 mm)	9-1/4" (235.0 mm)	2-1/4" (57.2 mm)	6.1 oz. (173 g)
69407	2	6" (152.4 mm)	10-1/4" (260.4 mm)	2-1/4" (57.2 mm)	8.5 oz. (240 g)
69408	2	7" (177.8 mm)	10-1/4" (260.4 mm)	2-1/4" (57.2 mm)	10.6 oz. (299 g)



Carrying Case

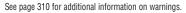
- Constructed of black 600 Denier Nylon
- Has a heavy-duty PVC zipper and zinc alloy zipper tag
- The case has exceptional resistance to abrasions, punctures and tears
- Easily fits the following Klein Tools test and measurement meters: MM300, MM400, MM600, MM700, CL110, CL210, CL310, CL330, CL600, CL700 and CL800
- Convenient storage for other test and measurement products

Cat. No.	Width	Height	Depth	Weight
69401	4" (101.6 mm)	9-1/4" (235.0 mm)	2-1/4" (57.2 mm)	3.2 oz. (91 g)



69401

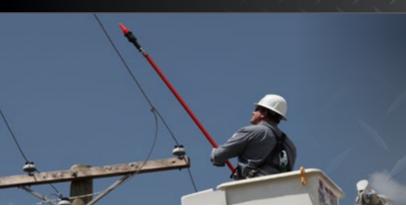












High Voltage Testers

Detect a wide range of AC voltage in overhead conductors and cables

Dual-Range High Voltage Non-Contact Tester

- Use to check for the presence of voltage in overhead conductors or to find faults in cables
- LOW range for 50V AC to 1.5kV AC
- HIGH range for 1.5kV AC to 132kV AC
- Includes durable carrying case



Cat. No.	Voltage Range	Length	Weight
HVNCVT-1	Low: 50V AC - 1.5kV AC High: 1.5kV AC - 132kV AC	13" (330.2 mm)	10.6 oz. (299 g)

Broad-Range Non-Contact Tester

- Use to check for the presence of voltage in overhead conductors or to find faults in cables
- 7 sensitivity ranges up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 230kV)
- Includes durable carrying case and universal/shotgun adapter



Cat. No.	Voltage Range	Length	Weight
HVNCVT-2	up to 230kV AC	10-25/64" (260.4 mm)	1.4 lbs. (0.64 kg)

Broad-Range Contact Tester

- Contact tester indicates the presence of voltage in overhead conductors 5kV AC to 36kV AC
- Includes durable carrying case



Cat. No.	Voltage Range	Length	Weight
HVCT-1	5 - 36kV AC	9.7" (246.38 mm)	0.68 lbs. (0.31 kg)

Fiberglass Telescoping Handle

- Used for checking voltage up to 1,000V AC
- Connects to the hot stick end of the High-Voltage Contact Tester (Cat. No. HVCT-1)
- Dielectric pole type-tested & rated for 10kV AC
- Comes in a convenient zippered case

Cat. No.	Voltage Range	Length	Weight
HV-43	up to 1,000V AC	12.5"- 44.5" (317.5 to 1130.3 mm)	0.73 lbs. (0.33 kg)

See page 310 for additional information on warnings.





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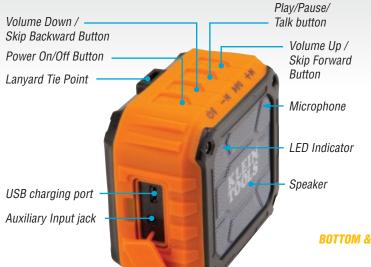
HV-43

MIRELESS JOBSITE SPEAKER iPhone / Android compatible



The Klein Tools **AEPJS1** is a powered speaker that provides 5 watts of high-quality sound for smart phones, tablets, computers and other audio devices via a wireless Bluetooth* connection or wired auxiliary input. It answer calls hands-free with the built-in speakerphone and can be magnetically attached to any steel surface, attached to Klein's Lighted Tool Bag (Cat. No. 55431), mounted to a standard 1/4-20 tripod, attached to a lanyard, or simply stood up on any solid, level surface.

TOP, SIDE & FRONT OF UNIT





- 10-Hour Battery Life
- 32.8 ft (10 m) Connectivity Range
- Rated IP45 Waterproof / Dustproof
- Drop Protected up to 6.6 ft (2 m)

BOTTOM & BACK OF UNIT



Cat. No.	Dimensions	Weight
AEPJS1	3.88" x 3.5" x 2.13" (98.6 x 88.9 x 54.1 mm)	10 oz. (283 g)

 * Bluetooth is a registered trademark of Bluetooth Special Interest Group.



Water-resistant cover









X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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