imall

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

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Test & Measurement

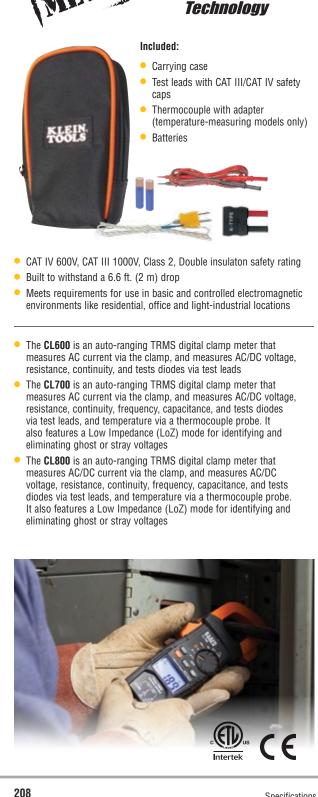
Crafted for optimum durability, reliability and functionality, our line of test and measurement equipment is engineered with the user in mind. Designed for, and by electricians, our electrical testers provide the latest in innovative, time-saving features that professionals require.

For Professionals... Since 1857™



Tough Digital Clamp Meters

True RMS Measurement







| | | 一支成 | 而產品 | - the |
|--------------------------|--------------------------------|---------------------------|---------------------------------|---------------------------------|
| Fea | atures | CL600 | CL700 | CL800 |
| | Drop Protection | 6.6 ft. (2 m) | 6.6 ft. (2 m) | 6.6 ft. (2 m) |
| E/ | Ingress Protection | IP40 | IP40 | IP40 |
| $\underline{\mathbb{N}}$ | Safety | CAT IV 600V | CAT IV 600V | CAT IV 600V |
| \widetilde{v} | AC Voltage (Volts) | 1000V | 1000V | 1000V |
| V | DC Voltage (Volts) | 1000V | 1000V | 1000V |
| Ã | AC Current (Amps) | 600A | 600A | 600A |
| A | DC Current (Amps) | — | _ | 600A |
| Ω | Ohms (Resistance) | 60MΩ | 60MΩ | 60MΩ |
| тV | AC Millivolts | — | _ | _ |
| mV | DC Millivolts | • | ٠ | • |
| rms | True RMS | ٠ | ٠ | ٠ |
| •)) | Audible Continuity | • | • | • |
| ¥- | Backlight | • | • | • |
| F℃ | Temperature | _ | -14° – 1000°F (-26° – 538°C) | -14° - 1000°F (-26° - 538°C) |
| LOW Z | Low Impedance | _ | • | ٠ |
| VCV | Non-Contact Voltage Testing | • | • | • |
| AUTO | Auto Ranging | • | • | • |
| ANGE | Range Hold | • | • | • |
| IOLD | Data Hold | • | • | • |
| | Diode Test | ٠ | • | ٠ |
| -16 | Capacitance Test | — | 6000 μF | 6000 μF |
| Hz% | Frequency / Duty Cycle | - | 1Hz – 500 KHz | 1Hz – 500 KHz |
| MAX/ Min | Max / Min | • | • | • |
| Ę | Magnetic Mount | Available As Accessory | Available As Accessory | Available As Accessory |
| | Worklight | - | - | • |
| APO | Auto-Power Off | • | • | • |
| 1888 LCO | LCD Display Count | 6000 | 6000 | 6000 |
| | o | | | |

Specifications are subject to change. See page 310 for additional information on warnings.

www.kleintools.com

See warning section on page 208 for important safety information regarding clamp meters 🔬 😨 🚺



NEV

Digital Clamp Meters



- 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



IRAA 1888 8888 100 **Features** 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) -Ingress Protection Safety CAT III 600V CAT III 600V CAT III 600V CAT III 600V AC Voltage (Volts) ĩ 600V 600V 600V 600V V DC Voltage (Volts) 600V 600V 600V 600V Â AC Current (Amps) 400A 400A 400A 400A DC Current (Amps) _ _ _ Α $|\Omega|$ Ohms (Resistance) 20MΩ 20MΩ 40MΩ 40MΩ AC Millivolts mV • • mV DC Millivolts TRMS True RMS • _ _ •))) Audible Continuity . . • **-`∳**-Backlight • • -40° – 1832°F -40° – 1832°F -40° - 1832°F °F ℃ Temperature _ (-40° - 1000°C) (-40° - 1000°C) (-40° - 1000°C) LOW Z Low Impedance Non-Contact NCV _ Voltage Testing AUTO Auto Ranging • • • . RANGE Range Hold • • • HOLD Data Hold • • • • ┢ Diode Test • • **|+|**+ Capacitance Test 4000 µF 4000 µF _ _ Ηz % Frequency / Duty Cycle 10Hz - 1MHz 10Hz – 1MHz MAX Max / Min MAX only MAX only • C: Magnetic Mount **I** Worklight _ APO Auto-Power Off • • • • 8888 LCD LCD Display Count 2000 2000 4000 **OLED** Display Count 4000 _ _ _ Bar Graph linni _



Specifications are subject to change. See page 310 for additional information on warnings.

See warning section on page 208 for important safety information regarding clamp meters



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. Kit Contains

| Т | | | | | | 15.1 oz. (428 g) |
|---|----------|------------------|---|-------------------|--------------------|---------------------|
| | 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) | _ |
| | | | ions see individual pro 10 - page 215, 69409 | | | - |

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.



CL110KIT



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



| | | <u>5000</u> | |
|-------------|-----------------------------|------------------------------|-------------------------------------|
| Feat | ures | CL2500 1000A AC/DC | CL3200 200A AC Fork Meter |
| | Drop Protection | 3.3 ft. (1 m) | 3.3 ft. (1 m) |
| E/ | Ingress Protection | IP42 | IP30 |
| | Safety | CAT IV 600V | CAT IV 600V |
| v | AC Voltage (Volts) | 750A | 750A |
| v | DC Voltage (Volts) | 1000V | 1000V |
| Ã | AC Current (Amps) | 1000A | 200A |
| Ā | DC Current (Amps) | 1000A | _ |
| Ω | Ohms (Resistance) | 60MΩ | 40ΜΩ |
| TRMS | True RMS | ٠ | _ |
| •))) | Audible Continuity | • | • |
| | Backlight | ٠ | • |
| LOW Z | Low Impedance | _ | • |
| NCV | Non-Contact Voltage Testing | • | • |
| AUTO | Auto Ranging | _ | • |
| RANGE | Range Hold | ٠ | • |
| HOLD | Data Hold | • | • |
| + + | Diode Test | ٠ | _ |
| H | Capacitance Test | 6000µF | _ |
| Hz% | Frequency / Duty Cycle | ٠ | _ |
| MAX/ MIN | Max / Min | ٠ | _ |
| | Magnetic Mount | ٠ | • |
| | Worklight | ٠ | • |
| APO | Auto-Power Off | ٠ | • |
| limt | Bar Graph | ٠ | • |
| 8888 LCO | 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 |



Specifications are subject to change. See page 310 for additional information on warnings.

See warning section on page 208 for important safety information regarding clamp meters



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

KLEIN

- 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) ٠ digital multimeter that measures AC/DC voltage, AC/DC current, and resistance. It also measures temperature, capacitance, frequency, dutycycle, and tests diodes and continuity



| Fea | tures | MM600 | MM700 |
|--------------------------------|------------------------|-------------------------------|-------------------------------|
| No. | Drop Protection | 6.6 ft. (2 m) | 6.6 ft. (2 m) |
| E/ | Ingress Protection | IP42 | IP42 |
| $\underline{\mathbb{A}}$ | Safety | CAT IV 600V | CAT IV 600V |
| v | AC Voltage (Volts) | 1000V | 1000V |
| V | DC Voltage (Volts) | 1000V | 1000V |
| Ã | AC Current (Amps) | 10A | 10A |
| Ā | DC Current (Amps) | 10A | 10A |
| Ω | Ohms (Resistance) | 40ΜΩ | 40ΜΩ |
| mV | DC Millivolts | ٠ | • |
| mĂ | AC Milliamps | ٠ | • |
| mÄ | DC Milliamps | • | • |
| $\widetilde{\widetilde{A}\mu}$ | AC Microamps | • | • |
| μÄ | DC Microamps | • | • |
| TRMS | True RMS | — | • |
| •))) | Audible Continuity | • | • |
| - \ | Backlight | • | • |
| °F °C | Temperature | 0° – 1000°F (-18° – 538°C) | 0° – 1500°F (-18° – 816°C) |
| LOW Z | Low Impedance | — | • |
| AUTO | Auto Ranging | ٠ | • |
| RANGE | Range Hold | • | • |
| HOLD | Data Hold | • | • |
| ₩ | Diode Test | ٠ | • |
| 46 | Capacitance Test | 1000 µF | 4000 µF |
| Hz % | Frequency / Duty Cycle | 1Hz – 500 KHz | 1Hz – 500 KHz |
| MAX/ Min | Max / Min | • | • |
| LERd | Lead Warning | ٠ | • |
| hint | Bar Graph | — | • |
| | Magnetic Mount | Available As Accessory | Available As Accessory |
| APO | Auto-Power Off | ٠ | • |
| TEST | Battery Test | — | - |
| 8888 LCD | LCD Display Count | 4000 | 4000 |

Specifications are subject to change. See page 310 for additional information on warnings.

See warning section on page 212 for important safety information regarding multimeters





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



| | | 00 | |
|--------------------------|------------------------|---------------------------|-------------------------------|
| Fea | tures | MM300 Manual Ranging | MM400 Auto Ranging |
| K | Drop Protection | 3.3 ft. (1 m) | 3.3 ft. (1 m) |
| ==/ \ | Ingress Protection | — | — |
| $\underline{\mathbb{N}}$ | Safety | CAT III 600V | CAT III 600V |
| v | AC Voltage (Volts) | 600V | 600V |
| v | DC Voltage (Volts) | 600V | 600V |
| Ã | AC Current (Amps) | — | 10A |
| Ā | DC Current (Amps) | 10A | 10A |
| Ω | Ohms (Resistance) | 20ΜΩ | 40ΜΩ |
| mV | DC Millivolts | • | • |
| mÃ | AC Milliamps | _ | • |
| mĀ | DC Milliamps | • | • |
| mÃ | AC Microamps | — | • |
| μÄ | DC Microamps | • | • |
| TRMS | True RMS | _ | _ |
| •))) | Audible Continuity | • | • |
| | Backlight | _ | • |
| °F °C | Temperature | — | 0° – 1000°F (-18° – 538°C) |
| LOW Z | Low Impedance | — | — |
| AUTO | Auto Ranging | — | • |
| RANGE | Range Hold | _ | • |
| HOLD | Data Hold | • | • |
| ₩ | Diode Test | • | • |
| -16 | Capacitance Test | — | 200 µF |
| Hz % | Frequency / Duty Cycle | — | 1Hz – 50 KHz |
| MAX/ Min | Max / Min | _ | • |
| LERd | Lead Warning | _ | _ |
| hint | Bar Graph | _ | _ |
| | Magnetic Mount | Available As Accessory | Available As Accessory |
| AP0 | Auto-Power Off | _ | • |
| TEST | Battery Test | • | _ |
| 8888 LCD | LCD Display Count | 2000 | 4000 |

Specifications are subject to change. See page 310 for additional information on warnings.



See warning section on page 212 for important safety information regarding multimeters

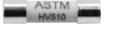


Multimeters

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

69192

| 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 Measu | irement 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 ratin
- The NCVT-1 has a bright gree red and warning tones sound
- NCVT-1 has a digitally-control feature to conserve and exter
- Receptacle tester detects wiri ground, open hot, open neutr of ground, multiple hot wires
- Includes visual and audible c

Includes test leads and batter

Cat. No. Set Contains

Cat. No.

MM300

NCVT-1

69149

| ht green LED sound when controlled ON d extend batte sts wiring con n neutral, hot/ | to indicate the t voltage is detect I/OFF power but ery life figurations and 'ground reversed ombination of d | ton and auto powe indicates correct v d; it does not indic | t changes to er-off viring, open | | | Fådel 1 | | |
|--|---|--|--|-----------------|-------|---------|-------------|-------|
| dible continuit I batteries | ty indicators up | | | °CE | | | 0-0 | |
| | ty indicators up | | | s C E Weight | T T T | | | |
| | ty indicators up | | | | | | | |
| | ty indicators up Height | | | Weight | | | C C | |
| l batteries | · · · | ן ה | ntertek LISTED | Weight | | | RUCEN TOOLS | |
| batteries Batteries | Height | , ī Width | LISTED Depth 1-25/32" (45.2 | Weight | | | RUCEN TOOLS | 69149 |

Receptacle testor N/A 2.75" (69.9 mm) 1.5" (38.1 mm) For additional specifications see individual product pages (MM300 - page 211, NCVT-1 - page 214)

WARNINGS:

214

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.

See page 310 for additional information on warnings.





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

| 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) |

See page 310 for additional information on warnings.



LISTED

4000907



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. |





CE



| 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

LISTED





| 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) |



CE



Electrical Testers

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

GFCI

No

Yes

Cat. No.

RT110

RT210

Nominal Voltage: 110/125V AC at 50/60Hz in 3-wire outlet

Height

2-7/8" (73.0 mm)

2-7/8" (73.0 mm)

- 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

Width

1-7/8" (47.6 mm)

1-7/8" (47.6 mm)





RT210



69133

Depth

1-5/8" (41.3 mm)

1-5/8" (41.3 mm)

- Quickly reveals shorts or broken circuits in all types of electrical devices and controls
- Tests for continuity of circuit with power off
- 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

| 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) | | | |

Circuit Tester



- 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) | |

See page 310 for additional information on warnings.



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Low-Voltage Tester

CE

Weight 2.0 oz. (57 g)

2.0 oz. (57 g)



- 69127
- Device for checking live 6-24V, AC or DC circuits
- Tests for shorts in automotive and truck electrical systems, motor field coils, radio and low-voltage circuits, ground circuits of all lamps, wiring, fuses. etc.
- Bulb in handle glows when circuit is complete (bulb included)
- Pointed 3-3/4" (95 mm) probe makes checking easier
- Deluxe 3-1/2" (89 mm) long handle with nylon top holds replaceable bulb
- 36" (915 mm) test lead with alligator clip
- Proudly built in U.S.A. with global components

| 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) | |

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) |



4" (102 mm)

IR5

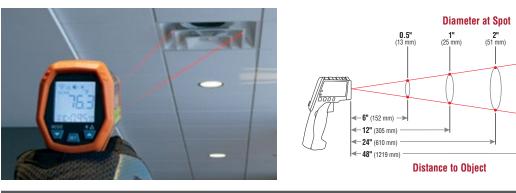
CE FCC

NEW

Specialty Testers

IR5 Dual Laser Infrared Thermometer

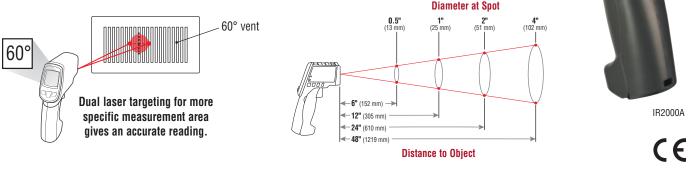
- Optical Resolution (Distance-to-spot) is 12:1
- Features include dual-laser targeting, auto-scan, max/min/avg/diff, high/low alarm, backlit display, auto power-off
- Drop protection to 6.6 ft. (2 m)
- Measurement Range: -22° to 752°F (-30° to 400°C)
- Uses one 9-volt battery, with battery life expectancy 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. No |). | 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) |

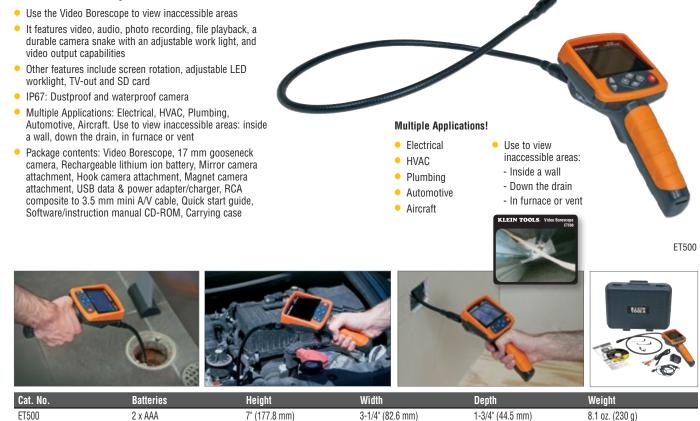
See page 310 for additional information on warnings.





Specialty Testers

Video Borescope



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





| 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) |

See page 310 for additional information on warnings.





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) |

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

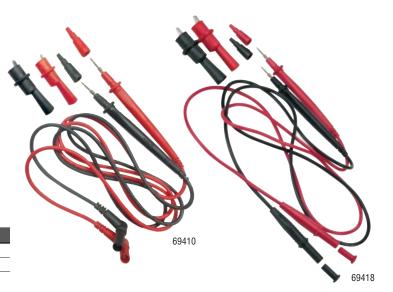
| Cat. No. | Overall Length | Weight | |
|----------|-----------------|----------------|--|
| 69410 | 41" (1041.4 mm) | 3.2 oz. (91 g) | |
| 69418 | 41" (1041.4 mm) | 3.4 oz. (96 g) | |

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 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) |

See page 310 for additional information on warnings.



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Test & Measurement Line Accessories



- 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) |



- 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 | 01 10 | our e | extensions | plus | camera | |
|---|---------|-------|-------|------------|------|--------|--|
| | | | | | | | |

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



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) |

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

WARNINGS:

- · 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 Weight Depth 69409 4-43/64" (118.7 mm) 2-9/32" (57.9 mm) 1" (25.4 mm) 3.9 oz. (111 g)





69409

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) |



5189



69190

69417

5184

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) |

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

See page 310 for additional information on warnings.



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High Voltage Testers

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

| | ubwised conductors or to find faults in cables LOW range for 50V AC to 1.5kV AC HIBH range for 1.5kV AC to 132kV AC Includes durable carrying case Cat. No. Voltage Range to 1.5kV AC High: 1.5kV AC-152kV AC MUNCTI Low: 50V AC - 1.5kV AC High: 1.5kV AC - 152kV AC Use to check for the presence of voltage in overhead conductors or to find faults in cables • Sensitify ranges up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 63kV, 115kV, 230kV) • Includes durable carrying case and universal/shotgun adapter Extende Conductors St to 15kV AC to 104age in overhead conductors of the functional states in overhead conductors of the topescence of voltage in overhead conductors of the topescence of voltage in overhead conductors of of voltage voltage in overhead conductors of voltage voltage in overhead conductors of voltage in overhead conductors is voltage voltage voltage in overhead condu | Dual-Rang Non-Conta | ge High Volta act Tester | age | | | | 1 | |
|--|--|---|--|--|-----------|---|-------------------------|-------|---|
| Includes durable carrying case <u>total voit totage Range totage in overhead conductors or to find faults in cables </u> <i>Sec to check for the presence of voltage in overhead conductors or to find faults in cables </i> <i>Sec to check for the presence of voltage in overhead conductors or to find faults in cables </i> <i>Sec to check for the presence of voltage in overhead conductors or to find faults in cables </i> <i>Tossitivity ranges up to 230KY AC (240V, 4.2KV, 15KV, 25KV, 35KV, 55KV, 15KV, 25KV, 35KV, 66KV, 15KV, 25KV, 16KV, 25KV, 2</i> | Includes durable carrying case <u>includes durable carrying case</u> <u>the construction of the presence of voltage in overhead conductors or to find faults in cables</u> <u>the construction of the presence of voltage in overhead conductors or to find faults in cables</u> <u>the construction of the presence of voltage in overhead conductors or to find faults in cables </u> <u>a sensitivity ranges up to 2300K AC (240V, 4.2kV, 15kV, 25kV, 35kV, 63KV, 115kV, 230kV)</u> Includes durable carrying case and universal/shotgun adapter <u>MINCVT12 up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 63KV, 115kV, 250KV, 35kV, 63KV, 115kV, 230KV) </u> Includes durable carrying case and universal/shotgun adapter <u>MINCVT12 up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 35kV, 63kV, 115kV, 230kV) </u> <u>the construct Tester</u> <u>up to 230kV AC (10-25k4[*](280.4 mm) 1.4 lbs. (0.54 kg) </u> <u>MINCVT12 up to 230kV AC (10-25k4[*](280.4 mm) 1.4 lbs. (0.54 kg) </u> <u>MINCVT12 up to 230kV AC (10-25k4[*](280.4 mm) 1.4 lbs. (0.54 kg) </u> <u>MINCVT12 up to 230kV AC (10-25k4[*](280.4 mm) 1.4 lbs. (0.54 kg) </u> <u>MINCVT12 up to 230kV AC (10-25k4[*](280.4 mm) 1.6 bs to kg, expresence of voltage in overhead conductors 5kV AC to 30sV AC </u> <u>Includes durable carrying case <u>Loch to tester indicates the presence of voltage in overhead conductors 5kV AC to 30sV AC </u></u> | overhead cond | luctors or to find fault | | | | 20m | | |
| Weight indicates y Metal signal indicates y Weight indicates y Tensitivity ranges up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 23kV) Sky, 69kV, 115kV, 220kV) Includes durable carrying case and universal/shotgun adapter Cal. No. Voltage Bange Length Weight HUNCYT-1 up to 230kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 220kV) Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 200kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 230kV) Includes durable carrying case and universal/shotgun adapter Colspan="2">Colspan= 200kV AC (250k4 (260.4 mm) 1.4 lbs. (0.64 kg) Contact Tester Contact tester indicates the presence of voltage in overhead conductors SkV AC (10 58kV AC Includes durable carrying case Contact tester indicates the presence of voltage in overhead conductors SkV AC (10 9.2kV AC Includes durable carrying case Contact tester indicates the presence of voltage | Weight in Law: 50V AC - 154V AC High: 1.54V AC - 132V AC 13° (330.2 mm) 10.6 oz. (299 g) Weight indicates // Broad-Range Non-Contact Tester Use to check for the presence of voltage in overhead conductors of to find fulls 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 Includes durable carrying case and universal/shotgun adapter Proad-Range Contact Tester Up to 230kV AC 10.564' (260.4 mm) 1.4 lbs. (0.64 kg) Includes durable carrying case Present indicates the presence of voltage in overhead conductors 5kV AC to 36kV AC Includes durable carrying case Includes durable carrying case Voltage Range Voltage In the Use of the Inguity in Use of the Inguity in the Use of the Inguity | - | | λC | | | | | A |
| 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, 94kV, 115kV, 25kV, 35kV, 96kV, 115kV, 230kV AC Includes durable carrying case and universal/shotgun adapter Edt. No. Voltage Range Length Velight HVNCVT-2 up to 230kV AC 10-25/64' (260.4 mm) 1.4 lbs. (0.64 kg) Sense of voltage in overhead conductors 5kV AC to 36kV AC. Includes durable carrying case Encludes durable carrying case Encludes durable carrying case Encludes durable carrying case Ect. No. Voltage Range Length Velight HVNCVT-2 HVNCVT-2 Used for checking voltage up to 1,000V AC Oceneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Oceneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested rated for 10kV AC Conneats to the hot sick and of the High-Voltage Contact Tester (Cat. No. HVCT-1) </th <th> 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, 68kV, 15kV, 25kV, 35kV, 68kV, 15kV, 25kV, 15kV, 25kV, 35kV, 68kV, 15kV, 25kV, 15kV, 15kV, 25kV, 15kV, 25kV, 15kV, 15kV, 25kV, 15kV, 25kV, 15kV, 15kV, 15kV, 25kV, 15kV, 15</th> <th></th> <th></th> <th>1.5kV AC - 132kV AC</th> <th></th> <th></th> <th></th> <th></th> <th></th> | 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, 68kV, 15kV, 25kV, 35kV, 68kV, 15kV, 25kV, 15kV, 25kV, 35kV, 68kV, 15kV, 25kV, 15kV, 15kV, 25kV, 15kV, 25kV, 15kV, 15kV, 25kV, 15kV, 25kV, 15kV, 15kV, 15kV, 25kV, 15kV, 15 | | | 1.5kV AC - 132kV AC | | | | | |
| Used for check for the presence of voltage in overhead conductors 5kV AC (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 230V) Includes durable carrying case and universal/shotgun adapter Cal. No. Voltage Range Length Weight HVNCVT-2 up to 230kV AC 10-25/64' (260.4 mm) 1.4 lbs. (0.64 kg) | Use to check for the presence of voltage in overhead conductors SVA (240V, 4.2kV, 15kV, 25kV, 35kV, 69kV, 115kV, 230kV) Includes durable carrying case and universal/shotgun adapter Includes durable carrying case Includes durable | Broad-Rai | nge Non-Con | tact Tester | | | | AD | |
| 35KV, 69kV, 115kV, 230kV) • Includes durable carrying case and universal/shotgun adapter <u>Cat. No. Voltage Range Length Weight</u> HVNCVT-2 up to 230kV AC 10-25/64* (280.4 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 <u>Cat. No. Voltage Range Length Weight</u> HVCT-1 S - 36kV AC P. Telegass Telescoping Handle Used for checking voltage up to 1,000V AC Ounedts tester (cat. No. HVCT-1) Used for checking voltage up to 1,000V AC Ocnnets to the hot stick end of the High-Voltage Contact Tester (Cat. No. HVCT-1) Dielectric pole type-tested & rated for 10kV AC | SkV, 69kV, 115kV, 230kV) Includes durable carrying case and universal/shotgun adapter Cat. No. Voltage Range Length Weight HWRVT-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 Includes durable carrying case Metropy of the state o | conductors or | to find faults in cables | S | kV. | | 6 | - 200 | |
| HVNCVT-2 up to 230kV AC 10-25/64" (260.4 mm) 1.4 lbs. (0.64 kg) Broad-Range Contact Tester . | HVNCVT-2 up to 230kV AC 10-25/64' (260.4 mm) 1.4 lbs. (0.64 kg) Broad-Range Contact Tester | 35kV, 69kV, 11 | 15kV, 230kV) | | | | | | |
| Second and the presence of voltage in overhead conductors 5kV AC to 36kV AC • Includes durable carrying case Includes durable carrying case Second and the presence of voltage in overhead conductors 5kV AC to 36kV AC • Includes durable carrying case Includes durable carrying case Second and the presence of voltage to the presence of the prese | Broad-Range Contact Tester • Contact tester indicates the presence of voltage in overhead conductors 5kV AC to 36kV AC • Includes durable carrying case | | | | | | | | |
| 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 | 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 Eat. 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) | | | | 260.4 mm) | | | | |
| Comes in a convenient zippered case Cat. No. Voltage Range Length Weight | Comes in a convenient zippered caseCat. No.Voltage RangeLengthWeightHV-43up to 1,000V AC12.5"- 44.5" (317.5 to 1130.3 mm)0.73 lbs. (0.33 kg) | HVNCVT-2 Broad-Rat • Contact tester overhead cond • Includes durab Cat. No. | up to 230kV AC nge Contact indicates the presence fuctors 5kV AC to 36k ² ble carrying case Voltage Range | 10-25/64" (2 Tester e of voltage in V AC Length | | 1.4 lbs. (0.64 kg) | KLE TOO HIGH VOLT | S | |
| | HV-43 up to 1,000V AC 12.5"- 44.5" (317.5 to 1130.3 mm) 0.73 lbs. (0.33 kg) | HVNCVT-2 Broad-Rai Contact tester overhead cond Includes durab Cat. No. HVCT-1 Fiberglass Used for check Connects to th Contact Tester | up to 230kV AC nge Contact indicates the presence fuctors 5kV AC to 36k' ble carrying case Voltage Range 5 - 36kV AC s Telescopin(king voltage up to 1,00 the hot stick end of the (Cat. No. HVCT-1) | 10-25/64" (2 Tester e of voltage in V AC <u>Length</u> 9.7" (246.38 g Handle DOV AC High-Voltage | | 1.4 lbs. (0.64 kg) | KLE TOO NICH VOLT | S | |
| | See page 310 for additional information on warnings. | HVNCVT-2 Broad-Ran • Contact tester overhead cond • Includes durab Cat. No. HVCT-1 Fiberglass • Used for check • Connects to th Contact Tester • Dielectric pole • Comes in a con | up to 230kV AC nge Contact indicates the presence fuctors 5kV AC to 36k ole carrying case Voltage Range 5 - 36kV AC s Telescoping king voltage up to 1,00 he hot stick end of the (Cat. No. HVCT-1) type-tested & rated for nvenient zippered case | 10-25/64" (2 Tester e of voltage in V AC <u>Length</u> 9.7" (246.38 g Handle DOV AC High-Voltage or 10kV AC e | | 1.4 lbs. (0.64 kg) Weight 0.68 lbs. (0.31 kg) | KLE | S | |



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.

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