

TEST & MEASUREMENT

*Tested **Tough.***

*Trusted **Safe.***



KLEIN TOOLS
For Professionals... Since 1857™



Klein Tools has been manufacturing professional hand tools for almost 160 years. The company remains committed to providing the best hand tools in the industry while supporting electricians and professional tradespeople around the world with quality and reliability they can trust.

Tested Tough! Our products stand up to the demands of the professionals who use them every day, delivering all the performance, durability and precision needed to get the job done right, the first time, every time! Klein's new meters and electrical testers are packed with capabilities and functionality:

- Designed **TOUGH** to withstand jobsite drops and rough conditions
- Easy-to-use dials and buttons
- Large, bright, evenly backlit displays
- Molded-in test lead holders
- Comfortable, compact over-molded housing that's easy to hold

The new Test & Measurement line offers a variety of additional products including 10x Line Splitters, Outlet Testers, Non-Contact Voltage Testers, and optional accessories (such as carrying pouches, magnetic hangers, replacement leads), completing a product line that will exceed expectations on the most demanding jobsites for years to come.

Trusted Safe! These new digital clamp and multimeters boast capabilities that are specifically aligned with customers' expanding jobsite needs and expectations. These products were designed to meet CAT III or CAT IV requirements, as defined by IEC 61010 (3rd edition) standards. To the professional electrician and electrical technician, Klein knows that nothing is more important than safety. And that's why Klein has been **the #1 choice of electricians since 1857.**

**Tested Tough.
Trusted Safe.**

TOUGH METER Clamp Meters	2-3
Digital Clamp Meters	4-5
Functions & Features Comparison Chart	6-7
TOUGH METER Multimeters	8-9
Digital Multimeters	10-11
Non-Contact Voltage Testers & Receptacle Testers	12
Accessories & Kits	13





TOUGH METER



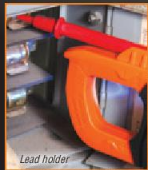
True RMS Measurement Technology

The **CL600** is an auto-ranging True Root-Mean-Squared (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 True Root-Mean-Squared (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 True Root-Mean-Squared (TRMS) digital clamp meter that measures AC/DC current via the clamp, 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 CL600, CL700 and CL800 each include a nylon carrying pouch, test leads and batteries. The CL700 and CL800 also include a thermocouple with adapter.



MEASUREMENT	CL600	CL700	CL800
AC/DC Voltage	1000V	1000V	1000V
AC Current	600A	600A	600A
DC Current	—	—	600A
Resistance	60MΩ	60MΩ	60MΩ
DC Millivolts	•	•	•
True RMS	•	•	•
Audible Continuity	•	•	•
Backlight	•	•	•
Temperature	—	-14° – 1000°F (-26° – 538°C)	-14° – 1000°F (-26° – 538°C)
Low Impedance	—	•	•
Non-Contact Voltage Testing	•	•	•
Auto-Ranging	•	•	•
Range Hold	•	•	•
Data Hold	•	•	•
Diode Test	•	•	•
Capacitance Test	—	6000 μF	6000 μF
Frequency/Duty Cycle	—	1 Hz - 500 kHz	1 Hz - 500 kHz
Max/Min Value	•	•	•
Auto Power-Off	•	•	•
Worklight	—	—	•
LCD Display Count	6000	6000	6000
DURABILITY			
Ingress Protection	IP40	IP40	IP40
Drop Protection	6.6 ft. (2 m)	6.6 ft. (2 m)	6.6 ft. (2 m)
Safety Rating	CAT IV 600V	CAT IV 600V	CAT IV 600V

Specifications subject to change.



DIGITAL CLAMP METERS



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 CL110, CL210 and CL310 clamp meters include a nylon carrying pouch, test leads, and batteries. The CL210 and CL310 also include a thermocouple.

Also available: CL110KIT Electrical Maintenance & Test Kit. Includes CL110 Clamp Meter, RT210 GFCI Receptacle Tester and 69409 Line Splitter-10x, nylon carrying pouch, test leads and batteries.



Backlit LCD screen



- INCLUDED:**
- Pouch
 - Test leads with CAT III/CAT IV safety caps
 - Thermocouple (temperature-measuring models only)
 - Batteries

MEASUREMENT	CL110	CL210	CL310
AC/DC Voltage	600V	600V	600V
AC Current	400A	400A	400A
Resistance	20MΩ	20MΩ	40MΩ
AC Millivolts	•	•	—
DC Millivolts	•	•	•
True RMS	—	—	•
Audible Continuity	•	•	•
Backlight	•	•	•
Temperature	—	-40° - 1832°F (-40° - 1000°C)	-40° - 1832°F (-40° - 1000°C)
Auto-Ranging	•	•	•
Range Hold	•	•	•
Data Hold	•	•	•
Diode Test	—	—	•
Capacitance Test	—	—	4mF
Frequency/Duty Cycle	—	—	10Hz - 1MHz
Max/Min Value	MAX MIN ✓	MAX MIN ✓	MAX MIN ✓
Auto Power-Off	•	•	•
LCD Display Count	2000	2000	4000
DURABILITY			
Drop Protection	3.3 ft (1 m)	3.3 ft (1 m)	3.3 ft (1 m)
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V

Specifications subject to change.

DIGITAL CLAMP METERS

FUNCTIONS & FEATURES

DIGITAL CLAMP METERS



FEATURES	CL110	CL210	CL310	CL600	CL700	CL800
Durability						
Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)	3.3 ft. (1 m)	6.6 ft. (2 m)	6.6 ft. (2 m)	6.6 ft. (2 m)
Ingress Protection	—	—	—	IP40	IP40	IP40
Safety	CAT III 600V	CAT III 600V	CAT III 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V
AC Voltage (Volts)	600V	600V	600V	1000V	1000V	1000V
DC Voltage (Volts)	600V	600V	600V	1000V	1000V	1000V
AC Current (Amps)	400A	400A	400A	600A	600A	600A
DC Current (Amps)	—	—	—	—	—	600A
Ohms (Resistance)	20MΩ	20MΩ	40MΩ	60MΩ	60MΩ	60MΩ
AC Millivolts	•	•	—	•	•	•
DC Millivolts	•	•	•	•	•	•
True RMS	—	—	•	•	•	•
Audible Continuity	•	•	•	•	•	•
Backlight	•	•	•	•	•	•
Temperature	—	-40° - 1832°F (-40° - 1000°C)	-40° - 1832°F (-40° - 1000°C)	—	-14° - 1000°F (-26° - 538°C)	-14° - 1000°F (-26° - 538°C)
Low Impedance	—	—	—	—	•	•
Non-Contact Voltage Testing	—	—	—	—	•	•
Auto Ranging	•	•	•	•	•	•
Range Hold	•	•	•	•	•	•
Data Hold	•	•	•	•	•	•
Diode Test	—	—	•	•	•	•
Capacitance Test	—	—	4000 μF	—	6000 μF	6000 μF
Frequency / Duty Cycle	—	—	10Hz - 1MHz	—	1Hz - 500 KHz	1Hz - 500 KHz
Max / Min	MAX only	MAX only	•	•	•	•
Magnetic Mount	—	—	—	Available As Accessory	Available As Accessory	Available As Accessory
Worklight	—	—	—	—	—	•
Auto-Power Off	•	•	•	•	•	•
LCD Display Count	2000	2000	4000	6000	6000	6000

Specifications subject to change.

DIGITAL MULTIMETERS



FEATURES	MM300	MM400	MM600	MM700
Durability				
Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)	6.6 ft. (2 m)	6.6 ft. (2 m)
Ingress Protection	—	—	IP42	IP42
Safety	CAT III 600V	CAT III 600V	CAT IV 600V	CAT IV 600V
AC Voltage (Volts)	600V	600V	1000V	1000V
DC Voltage (Volts)	600V	600V	1000V	1000V
AC Current (Amps)	—	10A	10A	10A
DC Current (Amps)	10A	10A	10A	10A
Ohms (Resistance)	2MΩ	40MΩ	40MΩ	40MΩ
AC Millivolts	—	•	•	•
DC Millivolts	•	•	•	•
AC Milliamperes	—	•	•	•
DC Milliamperes	•	•	•	•
AC Microamps	—	•	•	•
DC Microamps	•	•	•	•
True RMS	—	—	•	•
Audible Continuity	•	•	•	•
Backlight	—	•	•	•
Temperature	—	0° - 1000°F (-18° - 538°C)	0° - 1000°F (-18° - 538°C)	0° - 1500°F (-18° - 816°C)
Low Impedance	—	—	—	—
Auto Ranging	—	•	•	•
Range Hold	—	•	•	•
Data Hold	•	•	•	•
Diode Test	•	•	•	•
Capacitance Test	—	200 μF	1000 μF	4000 μF
Frequency / Duty Cycle	—	1Hz - 50 KHz	1Hz - 500 KHz	1Hz - 500 KHz
Max / Min	—	•	•	•
Lead Warning	—	—	•	•
Bar Graph	—	—	—	•
Magnetic Mount	Available As Accessory	Available As Accessory	Available As Accessory	Available As Accessory
Auto-Power Off	—	•	•	•
Battery Test	•	—	—	—
LCD Display Count	2000	4000	4000	4000

Specifications subject to change.

FUNCTIONS & FEATURES



TOUGH METER



MM700 Shown

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, and 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, duty-cycle, and tests diodes and continuity.

The MM600 and MM700 include a nylon carrying pouch, test leads, alligator clips, batteries and thermocouple with adapter.



Backlit LCD screen



Lead storage



Magnetic hanger 69417 (optional)



- INCLUDED:**
- Pouch
 - Test leads with CAT III/CAT IV safety caps
 - Alligator clips
 - Thermocouple with adapter
 - Batteries



MEASUREMENT	MM600	MM700
AC/DC Voltage	1000V	1000V
AC/DC Current	10A	10A
Resistance	40MΩ	40MΩ
DC Millivolts	•	•
AC/DC Milliamps	•	•
AC/DC Microamps	•	•
True RMS	—	•
Audible Continuity	•	•
Backlight	•	•
Temperature	0° – 1000°F (-18° – 538°C)	0° – 1500°F (-18° – 816°C)
Low Impedance (Low Z)	—	•
Auto-Ranging	•	•
Range Hold	•	•
Data Hold	•	•
Diode Test	•	•
Capacitance Test	1000 μF	4000 μF
Frequency/Duty Cycle	1Hz – 500 KHz	1Hz – 500 KHz
Max/Min Value	•	•
Lead Warning	•	•
Bar Graph	—	•
Auto Power-Off	•	•
LCD Display Count	4000	4000
DURABILITY		
Ingress Protection	IP42	IP42
Drop Protection	6.6 ft. (2 m)	6.6 ft. (2 m)
Safety Rating	CAT IV 600V	CAT IV 600V

Specifications subject to change.

TOUGH METER MULTIMETERS

TOUGH METER MULTIMETERS



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.

The MM300 and MM400 multimeters include test leads and batteries. The MM400 also includes a thermocouple with adapter.



LCD display

Function buttons

Function selector switch

Test lead input jacks



MM400 Shown



Backlit LCD screen



Lead storage



Magnetic hanger 89417 (optional)

INCLUDED:

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



MEASUREMENT	MM300	MM400
AC/DC Voltage	600V	600V
AC Current	—	10A
DC Current	10A	10A
Resistance	2MΩ	40MΩ
DC Millivolts	•	•
AC Milliamps	—	•
DC Milliamps	•	•
AC Microamps	—	•
DC Microamps	•	•
Audible Continuity	•	•
Backlight	—	•
Temperature	—	0° – 1000°F (-18° – 538°C)
Auto-Ranging	—	•
Range Hold	—	•
Data Hold	•	•
Diode Test	•	•
Capacitance Test	—	200 μF
Frequency/Duty Cycle	—	1 Hz – 50 kHz
Max/Min Value	—	•
Auto Power-Off	—	•
Battery Test	•	—
LCD Display Count	2000	4000
DURABILITY		
Drop Protection	3.3 ft. (1 m)	3.3 ft. (1 m)
Safety Rating	CAT III 600V	CAT III 600V

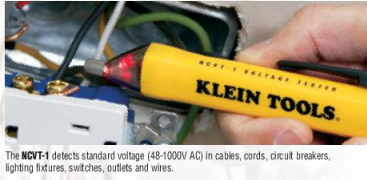
Specifications subject to change.

Non-Contact Voltage Testers



NCVT-1

SAFETY TESTER
C UL US LISTED
CE




NCVT-2

SAFETY TESTER
C UL US LISTED
CE




NCVT-3

SAFETY TESTER
ETL LISTED
CE



Receptacle Testers

Designed to detect the most common wiring problems! The **RT110** instantly diagnoses common wiring faults in standard grounded outlets, while the **RT210** works with both standard and GFCI (ground fault circuit interrupter) outlets.



Accessories

Replacement Test Leads

Compatible with all Klein meters and most other brands. Includes screw-on alligator clips. Safety rating: CAT IV 600V, CAT III 1000V.



Line Splitter 10x 69409

Allows the measuring of current draw up to 15A without having to split the load's power cord. For use with all Klein clamp meters.



Magnetic Hanger 69417

For use with Klein Tools MM300, MM400, MM600 and MM700 multimeters and CL700 and CL800 clamp meters.

Magnetic Hanger 69190

For use with previous-generation Klein Tools multimeters MM1000, MM1300, MM2000 and MM2300.

Carrying Case 69401

Practical pouch for use with Klein meters and other small tools. Constructed of 600 denier polyester, with heavy duty zipper. 4 x 9-1/4 x 2-1/2" (102 x 235 x 57 mm)

Test Kits

Electrical Test Kit 69149

Easy-to-use kit to diagnose electrical problems quickly. Kit includes: MM300 Digital Multimeter, NCVT-1 Non-Contact Voltage Tester, RT110 Receptacle Tester, test leads and batteries.



Electrical Maintenance & Test Kit CL110KIT

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.



***Tested Tough.
Trusted Safe.***



See our complete line of Test & Measurement products at
www.kleintools.com

