TEST & MEASUREMENT

Tested Tough.
Trusted Safe.



KLEIN® TOOLS

For Professionals... Since 1857™

KLEIN® TEST & MEASUREMENT

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.***

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CAT IV 4 2m

TOUGH METER

True RMS Measurement Technology

Intertek



Non-contact voltage testing sensor

Test lead holder

Clamp trigger

Function selector switch

Function buttons

LCD display

CL800 Shown

Test lead input jacks

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.

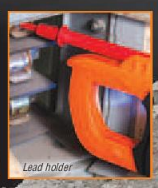
The **CL700** is an auto-ranging True Root-Mean-Squared (TRMS) digital clamp meter that measures AC current via the clamp, and measures AC/DC voltage, resistance, continuity, frequency, capacitance, and tests diodes via test leads, and temperature via a thermocouple probe. It also features a Low Impedance (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.



Backlit LCD screen


Lead holder


Magnetic hanger 69417 (optional)


Work light (CL800 only)



INCLUDED:

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



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.



*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.



Backlit LCD screen

***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.*



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



MEASUREMENT		CL110	CL210	CL310
V	AC/DC Voltage	600V	600V	600V
A	AC Current	400A	400A	400A
Ω	Resistance	20MΩ	20MΩ	40MΩ
mV	AC Millivolts	●	●	—
mV	DC Millivolts	●	●	●
TRMS	True RMS	—	—	●
	Audible Continuity	●	●	●
	Backlight	●	●	●
°F°C	Temperature	—	-40° – 1832°F (-40° – 1000°C)	-40° – 1832°F (-40° – 1000°C)
AUTO	Auto-Ranging	●	●	●
RANGE	Range Hold	●	●	●
HOLD	Data Hold	●	●	●
	Diode Test	—	—	●
	Capacitance Test	—	—	4mF
Hz %	Frequency/Duty Cycle	—	—	10Hz – 1MHz
MAX/MIN	Max/Min Value	MAX ✓ MIN ✗	MAX ✓ MIN ✗	MAX ✓ MIN ✓
Apo	Auto Power-Off	●	●	●
LCD	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



FEATURES	CL110	CL210	CL310	CL600	CL700	CL800
Durability	CAT III 1m	CAT III 1m	CAT III 1m	CAT IV 2m	CAT IV 2m	CAT IV 2m
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	CAT III 1m	CAT III 1m	CAT IV 2m	CAT IV 2m
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 Milliamps	–	●	●	●
DC Milliamps	●	●	●	●
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.

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
V	AC/DC Voltage	1000V	1000V
A	AC/DC Current	10A	10A
Ω	Resistance	40MΩ	40MΩ
mV	DC Millivolts	●	●
mA	AC/DC Milliamps	●	●
µA	AC/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 Impedence (Low Z)	—	●
AUTO	Auto-Ranging	●	●
RANGE	Range Hold	●	●
HOLD	Data Hold	●	●
	Diode Test	●	●
	Capacitance Test	1000 µF	4000 µF
Hz %	Frequency/Duty Cycle	1Hz – 500 KHz	1Hz – 500 KHz
MAX/MIN	Max/Min Value	●	●
LEAd	Lead Warning	●	●
	Bar Graph	—	●
Apo	Auto Power-Off	●	●
LCD	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.

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.



MM400 Shown

Backlit LCD screen



Lead storage



Magnetic hanger 69417 (optional)

INCLUDED:

- Test leads with CAT III/CAT IV safety caps
- Thermocouple with adapter (temperature-measuring model 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.

DIGITAL MULTIMETERS

Non-Contact Voltage Testers



NCVT-1



NCVT-2



NCVT-3



The **NCVT-1** detects standard voltage (48-1000V AC) in cables, cords, circuit breakers, lighting fixtures, switches, outlets and wires.



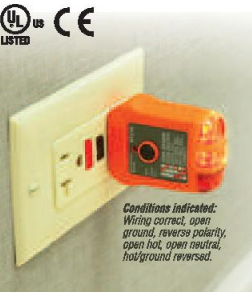
The dual-range **NCVT-2** detects low voltage (12-48V AC) in addition to standard voltage, and is perfect for use in security, entertainment, communications, environmental control and irrigation systems.



The **NCVT-3** detects 12-1000V AC and includes a bright LED flashlight that illuminates dark or dimly-lit work areas. Rated IP67: dustproof/waterproof, it can withstand a 6.6 ft. (2m) drop.

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.



Conditions indicated: *Wiring correct, open ground, reverse polarity, open hot, open neutral, hot/ground reversed.*



RT110



RT210

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.



69410 *Right-Angle*

69418 *Straight*

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 CL600, 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, RT105 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.

Kit includes: CL110 Digital Clamp Meter, 69409 10x Line Splitter, RT210 GFCI Receptacle Tester, test leads, batteries and carrying case.

Tested Tough.
Trusted Safe.



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

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Lincolnshire, IL 60069
96431 Rev. 11/15 A