

# Testing Equipment

# HVAC

Innovative Features  
...Superior Value

PROFESSIONAL SERIES  
HVAC TEST & MEASUREMENT

**KLEIN  
TOOLS®**

## Digital Clamps w/ Temperature

### CL 1300, CL 2300



#### CL 1300

##### 600A AC Clamp w/ Temperature

- Backlit Display & Worklight
- Magnetic Mount & Lead Storage
- Non-Contact Voltage Tester
- Analog Bar Graph
- Temperature



#### CL 2300

##### 600A AC / DC TRMS Clamp w/ Temperature

- True RMS
- Backlit Display & Worklight
- Magnetic Mount & Lead Storage
- Non-Contact Voltage Tester
- Analog Bar Graph
- Temperature



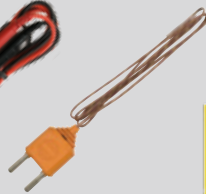
MEASUREMENT		CL1300	CL2300
$\tilde{A}$	AC Current	600A	600A
$\bar{A}$	DC Current	no	600A
$\tilde{V}$	AC Voltage	750V	750V
$\bar{V}$	DC Voltage	1000V	1000V
00.00	LCD Display	6000	6000
$\ \ $	Audible Continuity	●	●
$\Omega$	Resistance Range	60M $\Omega$	60M $\Omega$
HOLD	Data Hold	●	●
AUTO	Auto Ranging	●	●
$\text{---}+$	Low Battery	●	●
Apo	Auto Power-Off	●	●
$\odot$	Back Light	●	●
$\text{---}$	Work/Clamp Light	●	●
Hz%	Frequency/Duty Cycle	●	●
Hz	Frequency Limit	499.9kHz	499.9kHz
$\text{---}$	Capacitance	6000 $\mu$ F	6000 $\mu$ F
$\text{---}$	Diode Test	●	●
NCV	Non Contact Voltage	●	●
MAX/MIN	Min/Max	●	●
$\text{---}$	Magnetic Mount	●	●
$\text{---}$	Lead Storage	●	●
$\mu$ A	Micro Amps	$\geq 0.1\mu$ A	$\geq 0.1\mu$ A
$\ \ $	Bar Graph	●	●
$^{\circ}$ C	Temperature	●	●
TRMS	True RMS	no	●
$\text{---}$	Safety Rating	CAT IV 600V	CAT IV 600V



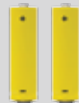
#### Includes:



Test Leads



Thermocouple



Batteries



Carrying Pouch



1000V  
600V



# Digital Multimeters w/ Temperature

## MM 1300, MM 2300



### MM 1300

#### Electrician's / HVAC Multimeter

- Backlit Display
- Analog Bar Graph

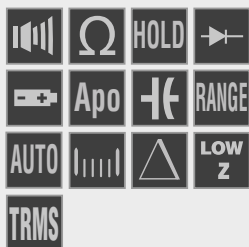


### MM 2300

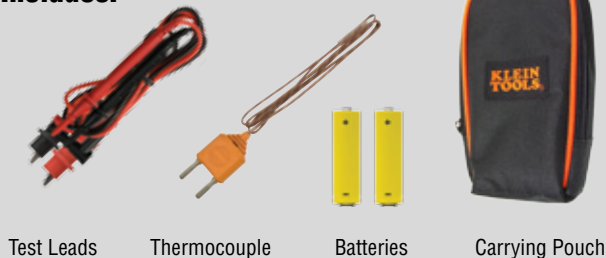
#### Electrician's / HVAC TRMS Multimeter

- True RMS Measurements
- Backlit Display
- Analog Bar Graph

MEASUREMENT	MM1300	MM2300
$\tilde{V}$ AC Voltage	1000V	1000V
$\bar{V}$ DC Voltage	1000V	1000V
$\tilde{A}$ AC Current	10A	10A
$\bar{A}$ DC Current	10A	10A
$00.00$ LCD Display	6000	6000
$\ \ $ Audible Continuity	●	●
$\Omega$ Resistance Range	60M $\Omega$	60M $\Omega$
<b>AUTO/HOLD</b> Auto Hold	●	●
$\rightarrow $ Diode Test	●	●
$-+$ Low Battery	●	●
<b>Apo</b> Auto Power-Off	●	●
$\odot$ Back Light	●	●
$\mu A$ Micro Amps	$\geq 0.1\mu A$	$\geq 0.1\mu A$
$\text{   }$ Capacitance	6000 $\mu F$	6000 $\mu F$
<b>RANGE</b> Range Hold	●	●
<b>AUTO</b> Auto Ranging	●	●
<b>Hz</b> Frequency Limit	499.9kHz	499.9kHz
<b>MAX/MIN</b> Min/Max	●	●
$    $ Bar Graph	●	●
<b>F<math>^{\circ}</math>C</b> Temperature	-58 ~ 1832 $^{\circ}$ F	-58 ~ 1832 $^{\circ}$ F
<b>Hz%</b> Frequency / Duty Cycle	●	●
$\Delta$ Relative Reading	●	●
$\frac{LOW}{Z}$ Low Impedance	no	●
<b>TRMS</b> True RMS	no	●
$\blacktriangle$ Safety Rating	CAT IV 600V	CAT IV 600V



#### Includes:



## Digital Temperature Loggers

### DTL 302, DTL 304



#### DTL 302

##### Dual Input Temperature Logger

- IP67: Water Proof/Dust Resistant
- Differential T1-T2
- Data Logging
- 9,999 Memory Positions
- MIN, MAX, AVG & Hold

<b>J-type</b>	<b>-346° to 2192°F</b>
<b>K-type</b>	<b>-328° to 2498°F</b>
<b>T-type</b>	<b>-418° to 752°F</b>
<b>E-type</b>	<b>-238° to 1832°F</b>

#### FEATURES

J, K, T & E Thermocouple Types
Differential Temperature
Data Logging
9,999 Memory Positions
USB Interface (Software included)
Thermocouple Temperature Offset
MIN/MAX/Average/Hold
Backlit Display
Probe Storage
Boot w/ Stand & Magnetic Strap Mount
Compliance Rating IP67



#### DTL 304

##### Quad Input Temperature Logger

- IP67: Water Proof/Dust Resistant
- Differential T1-T2 & T3-T4
- Data Logging
- 9,999 Memory Positions
- MIN, MAX, AVG & Hold

F°C	IP67	USB	MIN/MAX
AVG	HOLD	Apo	Sun

CE

#### Includes:



Thermocouples



Magnetic Hanger Strap



USB Power Adapter



Batteries



# 30:1 Infrared Thermometer

## IR 3000



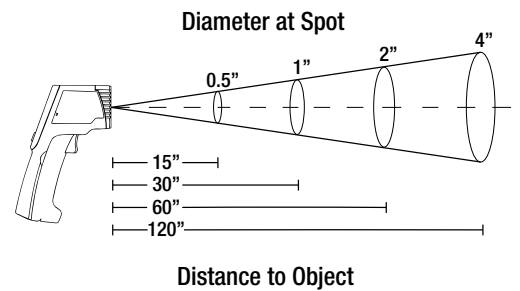
### IR 3000

#### 30:1 Infrared Thermometer Dual Laser Targeting

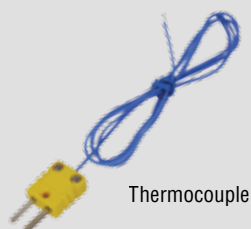
- Distance to Spot 30:1
- -76° ~ 1400°F (-60 ~ 760°C)
- K-Type thermocouple Input
- Dual Lasers allow you to see the actual target diameter



FEATURES		IR3000
Temperature Range	F°C	-76 ~ 1400°F -60 ~ 760 °C
K-Type Thermocouple Range	F°C	-83.2 ~ 2552°F -64 ~ 1400°C
Dual Laser Targeting		●
Emissivity		0.10~1.00
High/Low Alarms		●
Backlit Display	☀	●
Worklight	☛	●
°F/°C Button		●
Max / Min / Average / Differential	MAX/MIN	●
Auto Shut Off / Seconds	Apo	60 sec



#### Includes:



## Electronic Voltage Testers

### ET 100 & ET 200

#### Features:

- Measures AC and DC voltage at nine common levels up to 600V
- Bright LED's indicate voltage reading without batteries installed
- Low impedance input reduces possibility of ghost voltages
- Molded lead holders are perfect for easy measurements of tamper proof outlets

#### Additional features for the ET200

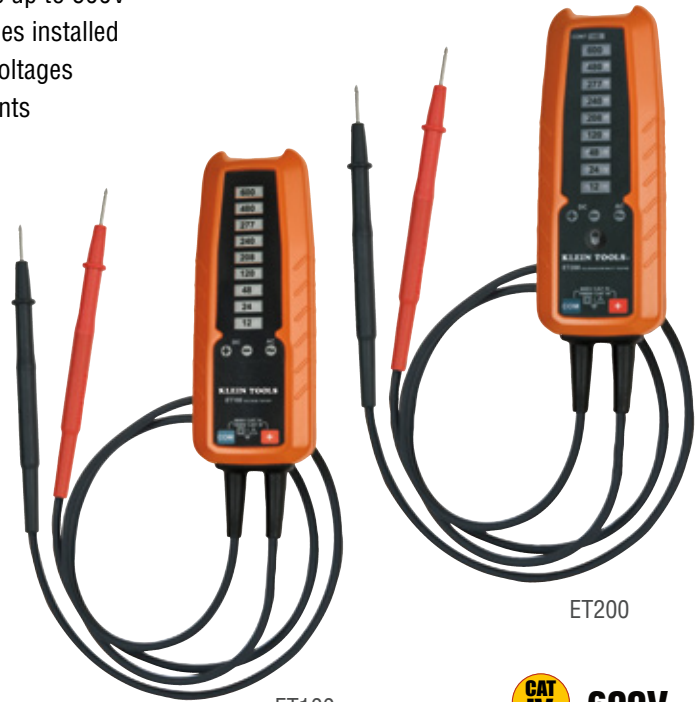
- Bright worklight to illuminate your work space
- Audible continuity at less than 270kHz



ET100



ET200



ET100

ET200

**CAT IV 600V**

## Non-Contact Voltage Testers

### NCVT-1 & NCVT-2

#### Features:

- Non-Contact voltage detection of voltage in cables, cords, circuit breakers, light fixtures, switches, outlets and wires
- When voltage is detected, a high intensity, bright red LED illuminates and a warning tone sounds

#### Additional features for the NCVT-2

- Automatically detects both low and standard voltages



NCVT-1

NCVT-2

**CAT IV 600V**

**Dual Range**



**⚠WARNING:** Read, understand, and follow all instructions, cautions and warnings attached to and/or packed with all Test and Measurement devices before each use.

# KLEIN TOOLS®

See our complete line of Test and Measurement products at

[www.kleintools.com](http://www.kleintools.com)

