



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.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

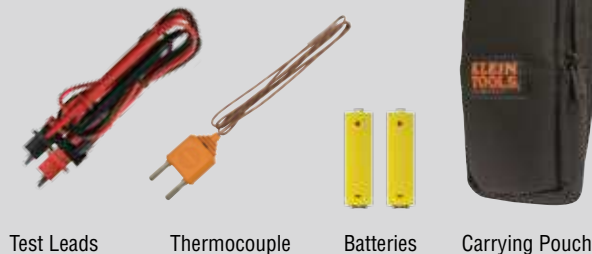
- True RMS
- Backlit Display & Worklight
- Magnetic Mount & Lead Storage
- Non-Contact Voltage Tester
- Analog Bar Graph
- Temperature



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



Includes:



Test Leads

Thermocouple

Batteries

Carrying Pouch



Digital Multimeters w/ Temperature

MM 1300, MM 2300



MM 1300

Electrician's / HVAC Multimeter

- Backlit Display
- Analog Bar Graph

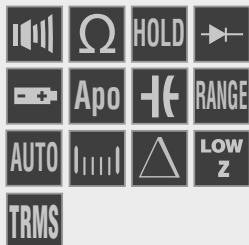


MM 2300

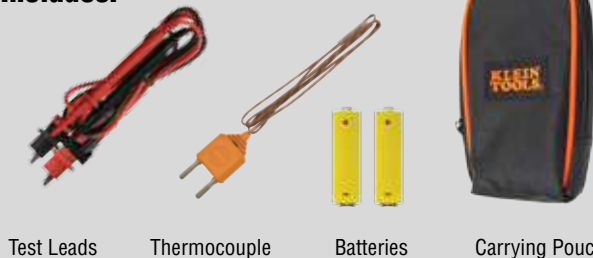
Electrician's / HVAC TRMS Multimeter

- 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	●	●
Ω Resistance Range	60M Ω	60M Ω
AUTO/HOLD Auto Hold	●	●
Diode Test	●	●
Low Battery	●	●
Apo Auto Power-Off	●	●
Back Light	●	●
μA Micro Amps	$\geq 0.1\mu A$	$\geq 0.1\mu A$
F Capacitance	6000 μF	6000 μF
RANGE Range Hold	●	●
AUTO Auto Ranging	●	●
Hz Frequency Limit	499.9kHz	499.9kHz
MAX/MIN Min/Max	●	●
Bar Graph	●	●
F$^{\circ}$C Temperature	-58 ~ 1832 $^{\circ}$ F	-58 ~ 1832 $^{\circ}$ F
Hz% Frequency / Duty Cycle	●	●
Δ Relative Reading	●	●
$\frac{LOW}{Z}$ Low Impedance	no	●
TRMS True RMS	no	●
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

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

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



Includes:



Thermocouples



Magnetic
Hanger Strap



USB Power
Adapter



Batteries



30:1 Infrared Thermometer

IR 3000



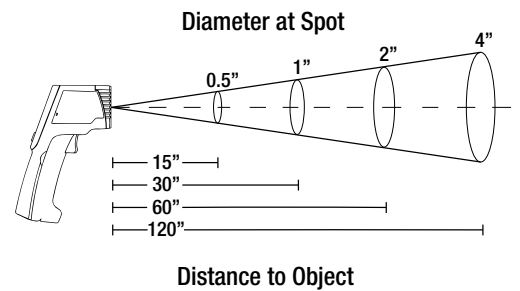
IR 3000

30:1 Infrared Thermometer Dual Laser Targeting

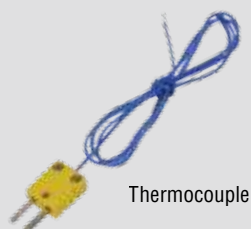
- Distance to Spot 30:1
- -76° ~ 1400°F (-60 ~ 760°C)
- K-Type thermocouple Input
- Dual Lasers allow you to see the actual target diameter



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



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



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

