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Serving Industry Since 1967



# PRECISION INSTRUMENTS









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### Multimeter

### AC/DC autoranging digital multimeter with temperature function.

0.5% basic DC accuracy
 Diode check and continuity test

• 4,000-count resolution • Data hold function

Double molded plastic housing
 EN61010-1 Cat. III 600V

Auto ranging and auto power off

 Includes AD-1 temperature input adapter, TP-01 type K thermocouple wire probe, TL-88-1 test leads, 6AM6X 9V battery, and CA-03 carrying case

AC/DC Voltage Range: 600V Accuracy: AC: ±1.2%; DC: ±0.5% AC/DC Current Range: 10A Accuracy: AC: ±3.0%; DC: ±2.5%

Resistance Range: 40MΩ Accuracy: ±0.8%

Frequency Range: 10MHz

Accuracy: ±1.5%

Capacitance Range: 200µF

Accuracy: ±3.0%

Duty Cycle Range: 99.9%

Accuracy: ±1.2%

Temperature Range: 760°C (1400°F)

Accuracy: ±3.0%

Dimensions: 150 x 70 x 48mm

Weight: 255g

AC/DC Multimeter ST-922



\$79

### Multimeter

#### A range of models and features for a variety of applications.

- 4,000-count resolution
- Diode check and continuity test
- Relative zero and Data hold functions
- Auto ranging and auto power off
- EN61010-1 Cat. IV 600V, Cat. III 1000V
- Both units include TL-88-1 test leads and 6AM6X 9V battery
- Model ST-9918T features True RMS measurements, Max/Min and Peak recording, as well as temperature function
- In addition, Model ST-9918T also includes AD-1 temperature input adapter, TP-01 type K thermocouple wire probe and CA-05A soft carrying case



Function	Range	ST-9915	ST-9918T
AC Voltage	1000V	•	•
DC Voltage	1000V	•	•
AC Current	10A	•	•
DC Current	10A	•	•
Resistance	40ΜΩ	•	•
Temperature	760°C/1400°F		•
Duty Cycle	99.9%		•
Frequency	10MHz		•
Capacitance	200µF, 40mF		•
Dimensions	182 x 82 x 55mm	•	•
Weight	360g	•	•

ST-9915 ST-9918T **CA-05A** 

599 AC/DC Multimeter \$129 True RMS AC/DC Multimeter **Soft Carrying Case** 

### Multimeter

### True RMS AC/DC digital multimeter.

- True RMS AC/DC voltage and current measurements
- Measures frequency, capacitance and temperature
- Diode check and continuity test
- 1000V input protection on all ranges
- 4-20 mA process loop measurements with % readout
- Backlit LCD readout with analog bar graph
   40,000-count resolution
- Data hold, Max/Min recording mode
   Peak capture mode
- IP67 dust and waterproof Cat. IV 600V, Cat. III 1000V ratings

 Includes AD-1 temperature input adapter, TP-01 Type K thermocouple wire probe, TL-88-1 test leads, 6AM6X 9V battery,

and CA-05A carrying case AC/DC Voltage Range: 1000V Accuracy: AC: ±1.0%; DC: ±0.05% AC/DC Current Range: 10A Accuracy: AC: ±1.5%; DC: ±1.0% Resistance Range: 40MΩ Accuracy:±0.3% Frequency Range: 10MHz Accuracy: ±0.1% Capacifance Range: 40mF Accuracy: ±3.5%
Duty Cycle Range: 99.9% Accuracy: ±1.2% Temperature Range: 760°C (1400°F) Accuracy: ±1.0%

ST-9919

Weight: 360g

True RMS AC/DC Multimeter

REED ST-9933

\$139

### Multimeter

Dimensions: 182 x 82 x 55mm

A full-function autoranging DMM offering true RMS AC measurement.

- True RMS AC measurements
- Temperature function
- Continuity test and diode check
- High contrast 4000-count LCD with backlight
- Data hold and Auto shut off
- CAT III 1000V
- Safety warning: Audible and visual alarms alert user if test lead connections do not match function selected

AD-1 temperature input adapter, TP-01 type K thermocouple wire probe, TL-88-1 test leads,

6AM6X 9V battery, and C-820 soft carrying case

AC Voltage Range: 750V DC Voltage Range: 1000V AC/DC Current Range: 20A Resistance Range: 40MΩ Capacitance Range: 100µF Frequency Range: 9.999MHz

Temperature Range: -40 to 1832°F (-40 to 1000°C) Dimensions:  $7.75 \times 3.5 \times 1.6$ " (197 x 88 x 41 mm)

Weight: 22.4 oz (635g)

True RMS AC/DC Multimeter ST-9933 ked evaluation convet CVISION DE

# Clamp Meter

True RMS AC/DC clamp meter.

- True RMS measurements
- Frequency measurement
- 3-3/4 digit LCD with 42-segment bargraph
- Max/Min and Data Hold functions
- Peak Hold function
- Diode and continuity test with beeper
- EN61010-1 Cat. II 600V, Cat. III 1000V
- Includes TL-88-1 test leads, 6AM6X battery and CA-05A carrying case

AC/DC Current Range: 40, 400, 1000A

AC Voltage Range: 400, 750V DC Voltage Range: 400, 1000V Resistance Range: 400,  $4000\Omega$ Frequency Range: 4, 10kHz Power Supply: Single 9V battery Jaw Opening: 40mm

Dimensions: 242 x 66 x 36mm (9.5 x 2.6 x 1.4")

Weight: 400g (10 oz)

C-212

True RMS AC/DC Clamp Meter

\$195





# Clamp Meter

True RMS AC/DC clamp meter with temperature function.

- Measures both AC and DC current and voltage
- True RMS reading instrument
- 4000-count digital display with 40-segment analog bargraph
- Audible continuity test and diode check
- Peak hold and Data hold functions
- DCA zero function
- Low battery indication and auto power off
- Double molded housing
- Designed to meet IEC61010-1 Cat. III 600V
- Includes AD-1 temperature input adapter, TP-01 type K thermocouple wire probe, TL-88-1 test leads, 6AM6X battery, CA-05A carrying case

AC/DC Current Range: 1000A AC/DC Voltage Range: 600V Resistance Range: 40MΩ Capacitance Range: 40µF Frequency Range: 10MHz

Temperature Range: 1000°C (1832°F) Dimensions: 229(H) x80(W) x 49(D) mm

Weight: 303 g

ST-3347

True RMS AC/DC Clamp Meter

\$189

# Clamp Meter

True RMS AC/DC clamp meter with temperature function.

- True RMS measurement
- Basic 2.5% DC current accuracy
- 4000-count LCD readout
   Data Hold
- Peak Hold
   DC current zero adjust
- Auto power off
   EN61010-1 Cat. III 600V
- Complete with AD-1 temperature input adapter, TP-01 Type K thermocouple wire probe, TL-88-1 test leads, AM-4 battery and C-820 carrying case

AC Current Range: 400A, 600A DC Current Range: 400A, 600A AC Voltage Range: 400mV to 600V DC Voltage Range: 4V to 600V Resistance Range: 400MΩ

Frequency Range: 9.999MHz Temperature Range: -4 to 1400°F/-20 to 760°C

Jaw Opening: 1.25" (33mm) Dimensions: 8 x 3.1 x 1.6"

Weight: 6.5 oz

ST-9800T

True RMS AC/DC Clamp Meter

\$129

# Clamp Meter

True RMS AC/DC clamp meter.

- True RMS measurements
- Frequency measurement
- Audible continuity test and diode check
- Current measurements to 2000A through the clamp and 240mA via the test leads
- DC current push button zero, relative measurements and data hold
- Large 5000-count backlit display
- IEC 1010 Cat.III 1000V
- Complete with TL-88-1 test leads and 6AM6X 9V battery

AC Current Range: 240A, 2000A DC Current Range: 240µA to 240mA AC Voltage Range: 2.4 to 1000V DC Voltage Range: 2.4mV to 1000V Resistance Range:  $240\Omega$  to  $24M\Omega$ Frequency Range: 50Hz to 100kHz Capacitance Range: 25nF to 25µF Jaw Opening: 2.36" (60mm) (750MCM)

Dimensions: 10 x 3.5 x 1.75"

Weight: 16 oz

CM-9930

True RMS AC/DC Clamp Meter

\$219

# Clamp Meter

Mini clamp meters meet your needs when measuring up to 400A.

- 4000-count LCD with backlight
- Data hold and zero functions
- Diode test to 0.3mA
- Continuity test
- Auto shut off and low battery indication
- Jaw opening 0.9" (23mm)
- Complete with test leads, batteries and carrying case (Models ST-333 & ST-335 includes type K thermocouple wire probe)
- Conforms to Cat. III 600V



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MODEL	ST-332	ST-333	ST-335
AC Current Range	400A	400A	400A
	400A	400A	-
DC Current Range	600V	600V	600V
AC Voltage Range	600V	600V	600V
DC Voltage Range	40MΩ	40ΜΩ	$40M\Omega$
Resistance Range		100µF	100pF
Capacitance Range	100µF	1.50kHz	150kHz
Frequency Range	150kHz	1000°C/	1000°C/
Temperature Range		1832°F	1832°F

AC/DC Clamp Meter ST-332 AC/DC Clamp Meter w/ Temp. ST-333 AC Clamp Meter w/ Temp.

\$129 \$139 \$99

PRICES ARE SUBJECT TO CHANGE

# Voltage/Gurrent Simulator

Combines voltage and current source and read functions into one instrument!

5-digit LCD readout • ±0.05% accuracy

Automatic calibration

User selectable auto power-off

Includes test leads, soft carrying case & batteries

Voltage Range: 10V

Output Range: 0.00 to 11.000V

Current Range: 20mA

Output Range: 0.000 to 22.000mA Analogue Transducer: -20mA Output Range: 0.000 to -22.000mA

Loop Power: 24V Power Supply: Single 9V alkaline battery

Battery Life: Approx. 20 hours

Dimensions: 200 x 100 x 40mm w/ holster

Weight: 550g w/ holster

VC04

Voltage/Current Simulator

\$395



Loop Galibrator

### Loop calibrator.

mA sourcing, simulation and measurement

0-28 VDC measurement to check loop voltage

0.02% accuracy and 0.001% of span display

Simulate mA and % of span display

Selectable step or ramp outputs

Includes test leads, soft carrying case & batteries

#### MEASUREMENT FUNCTION

Voltage Range: -0.200 to 28.000V Current Range: -1.000 to 22.000mA Loop Current Range: 0.000 to 22.000mA

OUTPUT FUNCTION

Current Range: 0.000 to 22.000mA Loop Power Range: 24V

Power Supply: Single 9V battery Battery Life: Approx. 12 hours

Dimensions/Weight: 200 x 100 x 40mm/550g

**VC05** 

Loop Calibrator

\$395

Voltage/Current Calibrator

Voltage/current calibrator.

• 6-digit LCD readout

Auto calibration

 Auto power off • Includes test leads, soft carrying case & batteries

#### MEASUREMENT FUNCTION

Voltage Range: 0.000 to 11.000V Current Range: 0.000 to 22.000mA Loop Current Range: 0.000 to 22.000mA

**OUTPUT FUNCTION** 

Voltage Range: 0.000 to 11.000V Current Range: 0.000 to 22.000mA

Loop Power Range: 24V Power Supply: Single 9V battery Battery Life: Approx. 12 hours

Dimensions/Weight: 200 x 100 x 40mm/550g

**VC15** 

Voltage/Current Calibrator

\$795

Walth Meter

Digital multimeter and watt meter in a single compact unit.

 Measures AC and DC volts and current and watts

 Measures true power up to 6000 watts Manual zero adjust in watt meter mode; automatic zero adjust in multimeter mode

Designed for one-handed operation

• Front panel has easily accessible sockets for power and load

Built-in, fold out stand

 Large (0.5"), easy-to-read LCD readout

Includes test leads

DW-6060 **CA-05A** 

Watt Meter **Soft Carrying Case**  \$295 \$21

Power Quality Analyzer



**Everything required for power** consumption and energy-saving analysis.

• 12 kinds of power measurements, including: voltage (rms), current (rms), active power, apparent power, reactive power, active energy, apparent energy, reactive energy, power factor (cos Ø), frequency, demand measurement, and current flow on the neutral 

 Measures 4 types of wiring systems: 1 phase-2 wire; 1 phase-3 wire, 3 phase-3 wire, and 3 phase-4 wire

Regenerative electric power can be measured

Electric power and power factor for each phase can be confirmed

Demand function for energy-saving measurements

Displays 3 different data simultaneously on a backlit LCD screen

Recording function with integration time selectable from 1 second to 1 hour

Internal non-volatile memory for non-stop recording up to 10 days

Accepts removable compact flash memory up to 128MB for non-stop recording up to 5 years

Direct communication with PC by USB connection

 Dual power supply: AC line or battery operation AC Voltage Ranges: 150.0V, 300.0V, 600.0V

AC Current Ranges: KEW8124: 100, 200, 500, 1000A; KEW8125: 50, 100, 200, 500A; KEW8126: 20, 50, 100, 200A

Kit includes: power meter, 3 Model KEW8125 clamp sensors (for KEW6300-01); 3 Model KEW8124 clamp sensors (for KEW6300-03), or 3 Model KEW8126 clamp sensors (for KEW6300-05), set of test leads (black, green, blue, red), USB cable and PC software, mains power cord and 6 batteries, 32MB Compact Flash card, and manual in a carrying case

KEW6300-01

KEW6300-05

Power Meter Kit, 500A Power Meter Kit, 1000A KEW6300-03

Power Meter Kit, 200A

\$2495 \$2795 \$2525

# Thermocouple Thermometer

Single or dual input thermocouple thermometers designed for field use.

Maximum Hold plus Data Hold

Large LCD with backlight

User selectable °C or °F
User selectable 0.1°C or 1°C (0.1°F or 1°F)

Accepts K-type thermocouples (see below)

Includes 9V battery and holster

Model ST-612:

 Dual input thermometer provides differential temperature measurements

 Differential Temperature (T1-T2) mode freezes display

 Scan Function (T1, T2, T1-T2, Max, Hold....)

Temperature Range: -58 to 2000°F (-50 to 1300°C) Resolution: 0.1°F/°C or 1°F/°C

Accuracy: ±0.5% of reading ±2°F/1°C Power Supply: Single 9V battery Dimensions: 165 x 76 x 43mm

Weight: 403g

Single Input Thermocouple Thermometer ST-610B **Dual Input Thermocouple Thermometer** ST-612

\$119

\$139

# Thermocouple Probes

A variety of themocouple probes designed for specific applications increases the versatility of your thermometer.

#### Model LS-109 Surface Probe:

 Ribbon style probe with a maximum temperature of 400°C.

#### Model LS-139 Surface Probe:

 Spring loaded probe is ideal for all high temperature applications. Maximum 500°C.

### Model LS-104 Right Angle Surface Probe:

 Unique right angle design allows temperature of hard to reach areas to be taken. Max. 400°C

#### Model LS-103 Air/Gas Probe:

 Perforated shield permits fast response while providing excellent element protection. Maximum temperature 800°C.

### Model LS-107 General Purpose Immersion Probe:

 Used to measure both air and liquids, but is recommended for immersion applications. Maximum temperature of 700°C.

#### Model LS-134A Needle Tip Immersion Probe:

 Medium gauge hypodermic needle tip, used to measure softer food stuffs, rubber and solids. Maximum temperature of 800°C.

# Thermocouple Thermometer

Single input digital thermometer with large 3-1/2 digit LCD and rugged rubber holster.

 Temperature indication follows NBS and IEC 584 temperature/voltage tables for Type K thermocouples

°C/°F switchable

Front panel offset adjustment

 Thermometer Kit includes: Model ST-9610B Thermometer w/ LS-103 Air Probe; LS-109 Surface Probe, and LS-107 General



Temperature Range: -58 to 2000°F (-50 to 1300°C)

Resolution: 0.1°F/°C or 1°F/°C

Accuracy: ±0.5% of reading +2°F or ±0.3% of reading +1°C

Power Supply: Single 9V battery

Dimensions/Weight: 147 x 70 x 39mm/210g

ST-9610B

Thermocouple Thermometer

\$99 \$295

ST-9610BDELUXE Thermocouple Thermometer Kit

RTD Thermometer

The waterproof design of this RTD thermometer makes it ideal for food service applications.

 Platinum resistor (Pt100) temperature sensor requires less temperature compensation than thermocouple units

°C/°F switchable

- Min/Max/Avg functions
- Data hold
- LED backlight
- IP67 waterproof housing
- Includes general purpose probe and batteries

Temperature Range: -148 to 572°F (-100 to 300°C)

Resolution: 0.1°F/°C Accuracy: ±0.1% rdg. ±0.4°C Sampling Rate: 2 times/second

Power Supply: 3 x 1.5V AAA batteries

Dimensions: 150 x 66 x 31 mm Weight: 175g

C-370

**RTD Thermometer** 

Thermo-Hygrometer

Compact thermo-hygrometer with integral probe for convenient one-hand operation.

 Dual LCD readout shows ambient temperature and relative humidity • User selectable °F / °C

Min/Max memory for both functions

Data hold and Relative functions

Auto power off
 Includes battery

Humidity Range: 0 to 100% RH

Resolution: 0.1% RH Accuracy: ±3% RH

Temperature Range: -4 to 140°F (-20 to 60°C)

Resolution: 0.1°F/°C Accuracy: ±1.6°F/0.8°C Power Supply: Single 9V battery

Dimensions: 9.5 x 2.1 x 1.3" (240 x 54 x 34mm)

Weight: 6.4 oz (180g)

C-315

Thermo-Hygrometer

\$139



38.8.

Thermo-Hygrometer

A dual input thermo-hygrometer with data logging capabilities.

 Triple LCD readout displays ambient temperature and relative humidity simultaneously as well as a second temperature reading when thermocouple input is connected • ~F/°C selectable

Internal memory can store up to 16,000 readings.

Data Hold and Min/Max function

RS-232 serial interface
 Timer function

 Includes K-type thermocouple bead probe, probe holder, RS-232 cable, Windows compatible software, 9V battery, and carrying case

Humidity Range: 0 to 100% RH

Resolution: 0.1% RH Accuracy: ±2.5% RH

Temperature Range: T1: -4 to 140°F (-20 to 60°C);

T2: -328 to 2498°F (-200 to 1370°C)

Resolution: T1: 0.1°F/°C; T2: 0.1° ≤ 200°; 1° ≥ 200° Accuracy: T1: ±1.4°F/0.7°C; T2: ±0.3% rdg. +2°F/1°

Power Supply: Single 9V battery

Dimensions: 10.8 x 2.5 x 1.2" (186 x 64 x 30mm)

Weight: 320g

C-314

Thermo-Hygrometer/Datalogger

5339

Thermo-Hygrometer

A pocket-sized thermo-hygrometer with a large dual digital display.

 Dual display shows ambient temperature and relative humidity

User selectable °F/°C

Data Hold and Min/Max function

Includes battery

Humidity Range: 10 to 95% RH

Resolution: 0.1% RH Accuracy: ±5% RH

Temperature Range: 32 to 122°F (0 to 50°C)

Resolution: 0.1°F/°C Accuracy: ±2.5°F/1.2°C Power Supply: Single 9V battery

Dimensions: 6.1 x 2.4 x 1.3" (156 x 60 x 33mm)

Weight: 5.6 oz (160g)

LM-81HT

Thermo-Hygrometer

599

REED I M-81HT

**Psychrometer** 

Humidity, wet bulb, dew point, air temperature plus external probe temperature measurements.

 Simultaneous display with %RH, temperature and dew point or wet bulb or external probe temperature\*

Calculates T1-T2 (Air temp. - External probe temp.)\*

 Triple display with backlighting
 Max/Min readings Sensor cap closes to protect probe during storage

 Model 8726 features a built-in datalogger (stores up to 99 data points) • Real time clock

Retrieve Max/Min/Avg readings from stored data

Requires 87P6 temperature probe

Humidity Range: 0 to 100% RH

Accuracy: ±3% RH @ 25°C; ±5% RH otherwise Dew Point Range: -90 to 122°F (-68 to 50C) Wet Bulb Range: 5 to 122°F (-21 to 50°C)

Internal Temp. Range: -4 to 122°F (-20 to 50°C)

Accuracy: ±1°F (±0.6°C)

External Temp. Range: -4 to 158°F (-20 to 70°C)

Accuracy:  $\pm 1^{\circ}F$  ( $\pm 0.6^{\circ}C$ )

8706 8726

87P6

**Digital Psychrometer** Digital Psychrometer/Datalogger

\$129

REED

42.6%

External Temperature Probe

\$20

\$109

Psychrometer

#### Digital psychrometer and infrared thermometer in one compact unit.

- Psychrometer calculates wet bulb, dew point and T1-T2
- Infrared thermometer measures surface temperatures from -40 to 932°F Infrared thermometer features built-in laser pointer, 8:1 distance to target ratio and
- adjustable emissivity Triple display with backlighting
- Max/Min Hold, °C/°F selectable and battery level indicators
- Retractable humidity sensor for protection during transport
- Optional RS-232 cable allows user to PD & dounted readings



**ACCURACY RESOLUTION FUNCTION RANGE** ±3% RH 0.1% RH 0 to 100% RH Humidity: ±1°F/0.6°C 0.1°F/°C -4 to 122°F/ Air Temp.: -20 to 50°C 0.1°F/°C ±3% -98 to 122°F/ Dew Point: -68 to 50°C ±3% 0.1°F/°C Wet Bulb: -5 to 122°F/ -21 to 50°C  $0.1^{\circ}F/^{\circ}C < 110^{\circ}C; \pm 2\%$  or -40 to 932°F/ Infrared Temp.:  $1^{\circ}F/1^{\circ}C \ge 110^{\circ}C \pm 2^{\circ}C/4^{\circ}F$ -40 to 500°C ±1°C Repeatability: Adjustable, 0.3 to 1.0 Emissivity: Optical Resolution: 8:1 (Distance:Spot size) 4 x AAA batteries (included) Power Supply: 6.8 x 2.7 x 0.9" (175 x 70 x 50mm) Dimensions: 4.9 oz (140g)

Psychrometer/IR Thermometer 8857 RS-232 Cable & Software

\$179 \$79

VZRS232BN

Weight:

### Sound Level Meter

This compact sound level meter is excellent for on-site spot checks of noise levels.

- Meets IEC 651 Type 2 requirements
- Large, easy-to-read LCD display
- Dual range measurement (hi/lo)
- "A & C" frequency weighting
- 1/2" electret condenser microphone
- Data Hold, Max Hold and low battery indication
- Carrying case and 9V battery included

Range: Low: 35 to 100 dB; High: 65 to 135 dB

Accuracy: ±1.4 dB

Frequency: 31.5 Hz to 8 kHz Time Weighting: Fast/Slow (A & C) Power Supply: Single 9V battery

Dimensions: 8.3 x 2.2 x 1.3" (210 x 55 x 32mm)

Weight: 8.1 oz (230g)

Weight, 0.1 oz (2009)

ST-805

Sound Level Meter

\$149



# A high performance yet economical digital sound level meter.

- Meets IEC 651 Type 2 requirements
- Large, easy-to-read LCD display
- Dual range measurement (hi/lo)
- "A & C" frequency weighting
- 1/2" Electret condenser microphone
- Internal 94dB calibration
- Data Hold, Max Hold and low battery indication
- Includes carrying case, windshield ball and 9V battery

Measuring Range: 30 to 130 dB (A & C)

Resolution: 0.1 dB Accuracy: ±1.4 dB

Frequency: 31.5 Hz to 8 kHz Time Weighting: Fast/Slow (A & C) Power Supply: 1 x 9V battery

Dimensions: 9.9 x 2.5 x 1.6" (251 x 64 x 40mm)

Weight: 8.8 oz (250 g)

57-8850 Sound Level Meter

\$239

REED 322 MATE COLUMN

### Sound Level Meter

# Datalogging sound level meter logs up to 32,000 readings.

- IEC651 Type II 32,000 record data logger
- User selectable sampling intervals
- Auto-ranging from 30 to 130 dB
- Dynamic range of 50 dB
- 4-digit backlit display with analog bar graph
- Real-time clock logs each data point with time & date
- User selectable sampling intervals
- AC and DC output
   Max/Min function
- Includes battery, manual, carrying case, calibration screwdriver, microphone wind shield ball, RS232 cable, and Windows datalogging software

Ranges: 32 to 80 dB, 50 to 100 dB, 80 to 130 dB

Resolution: 0.1 dB Accuracy: ±1.5 dB

Frequency: 31.5 Hz to 8 kHz

Datalogging Sound Level Meter



### Light Meter

Designed for one hand operation and to fit easily into a tool belt or pocket.

- User selectable Lux/Foot-candles
- Min/Max and Data hold function
- Auto shut off and zero adjustment button
- Over range and low battery indication
- Battery included

Range: 0 to 20,000 lux; 0 to 2,000 Fc

Resolution: 1, 10 lux; 0.1, 1 Fc Accuracy: ±5% of reading Sampling Rate: 1 time/second Power Supply: Single 9V battery

Dimensions: 6.1 x 2.4 x 1.3" (156 x 60 x 33mm)

Weight: 5.6 oz (160g)

LM-81LX

**Light Meter** 

\$99

324

REED LM-81LX



Accurately display light levels in terms of Foot-

candle or Lux over a wide measuring range.

- User selectable Lux/Foot-candles
- Max and Data hold function
- Over range and low battery indication
   Auto shut off
- Carrying case and 12V battery included

Range: 0 to 50,000 lux; 0 to 5,000 Fc Resolution: 0.1 lux; 0.1 Fc

Accuracy: ±5%

Sampling Rate: 1.5 times/second Power Supply: Single 12V battery

Dimensions: 7.4 x 2.5 x 1" (188 x 64 x 25mm)

Weight: 5.6 oz (160g)

ST-1301

**Light Meter** 

\$95

# Light Meter

Simultaneous display of Foot-candles or Lux, plus four lighting types.

Super large 1.4" (1999 count) LCD display
Displays % differential from reference point

Utilizes precision photo diode colour correction

filter • "ZERO" re-calibration

Cosine and colour corrected measurements
4% of full scale accuracy is enhanced by

selecting lighting type (Tungsten/Daylight, Fluorescent, Sodium, Mercury)

Record/Recall Min, MAX and AVG readings

Data Hold plus Auto shut-off

Built-in RS-232 serial interface

 Optional Windows® 95/98 compatible software and serial cable

 Optional battery powered datalogger stores over 8000 readings

• Range: 200.0/2000/5000 Fc; 2000/20,000/50,000 Lux

LX-105 DL-9601 SW-U801-WIN

UPCB-02

Light Meter
Data Logger

\$199 \$420 \$89

Software RS-232 Cable

\$30

PRICES ARE SUBJECT TO CHANGE

### Moisture Meter

This compact moisture meter with integrated electrode is ideal for use on any construction site.

- Measures the moisture content of sawn timber (also cardboard and paper) and hardened materials like plaster, concrete and mortar
- Average adjustment for European wood based on a wood temperature of 20°C
- Electrical resistance measuring principle
- 8mm long integrated electrode is replaceable

Range: Wood: 6 to 44% M.C.; Material: 0.2 to 2.0% M.C.

Accuracy: Wood: ±1%; Material: ±0.05% Power Supply: 3 x CR2032 batteries

Dimensions/Weight: 130 x 40 x 25mm/100g

ST-123

Moisture Meter

\$89

\$495

REED

#### Thickness Cauge A rugged ultrasonic thickness gauge that is compact and easy-to-use. Broad band receiving sensitivity means the meter can read probes of different frequencies • Display sound velocity at the touch of a button Measures the thickness of steel, cast iron, red copper, aluminum, zinc, quartz 0.000 glass, polyethylene, PVC, gray cast iron and nodular cast iron Automatic material calibration Selectable metric or imperial • 4-digit, 0.4" (10mm) high LCD readout Includes hard carrying case and batteries VEL MEN Range: 0.06 to 8"/1.2 to 200mm Resolution: 0.001"/0.1mm Accuracy: $\pm (0.5\% + 0.2\% - 0.1\%)$ Velocity Range: 500 to 9000 m/s Power Supply: 4 x 1.5V "AA" batteries Dimensions/Weight: $6.3 \times 2.7 \times 1.25$ " (161 x 69 x 32mm)/9 oz (258g)

**Ultrasonic Thickness Gauge** 

# Vibration Meter

Vibration meter measures velocity, acceleration, and displacement.

- Bearing condition monitoring function
- Piezoelectric accelerometer
- 4-digit, 18mm high LCD readout
- Metric/imperial conversion
- · Low battery indication and auto power off
- RS232 serial interface

TM-8811

 Includes accelerometer, two stinger probes, rare earth magnet and carrying case

Ranges: Velocity: 0.01 cm/s to 20.00 cm/s; Acceleration: 0.1 to 200.0 m/s² (peak);

Displacement: 0.001 to 2.000 mm (peak-peak)

Frequency Ranges: Velocity: 10Hz to 1kHz; Acceleration: 10 to 1kHz
("1" mode), 10 to 10kHz ("10" mode); Displacement: 10Hz to 1kHz

Power Supply: 4 x 1.5V "AA" batteries Dimensions/Weight: 160 x 68 x 32mm/181g

VM-6320

Vibration Meter

5695

### Cas Detector

This unit detects a wide variety of gases, including some toxic gases and nuisance vapors.

 Following is a partial list of the more common gases detected: natural gas; propane; butane; methane; acetone; alcohol; ammonia; steam; carbon monoxide; gasoline; jet fuel; hydrogen sulfide; smoke; industrial solvents; lacquer thinner; naphtha

Audible and visible alarms

Low power semi-conductor sensor

Includes soft carrying case and batteries

Sensitivity: 50 ppm methane
Warm-up Time: Approx. 5 minutes
Response Time: < 2 seconds
Alarm Limit: At 10% LEL for methane
Power Supply: 3 x "C" batteries
Battery Life: 8 hours of continuous use

Probe Length: 16" **GD-3300** 

Combustible Gas Detector

\$129

Refrigerant Leak Detector

Detects and pinpoints even small leaks of refrigerant gases.

Detects all halogenated refrigerants

Quickly and accurately mark any leak spot

• Semiconductor gas sensor

• Instantaneous response time

Audible and visual leak indications

No user calibration required

Includes reference leak source and case

Gases Sensed: CFCs: R11, R12, R13; HCFCs: R22, R502, R500; HFCs: R134a, R123, R125, R23, R404A, R407C, R410A

Sensitivity: R22, 134a: Hi 6g/year, L: 30g/year R404A, 407C, 410A: Hi 8g/year, L: 40g/year Alarm Settings: Buzzer, Tricolour LED bar indicator

Sensor: Advanced ionization detection
Power Supply: Single 9V alkaline battery

Probe: 390mm (15") flexible stainless probe
Dimensions: 7.3" x 3.4" x 1.4" (18.5 x 8.5 x 3.4 cm)

Weight: 18 oz. (500 g)

C-380 Refrigerant Leak Detector

\$219

### Carbon Monoxide Meter

This carbon monoxide meter is highly accurate and has an extremely fast response time ... critical factors when measuring CO concentrations.

Max, Data hold and Auto shut off

• Utilizes a stabilized electrochemical gas specific sensor

Audible alarm starts at 35ppm

Backlit LCD display

Includes carrying case and 9V battery

Range: 1 to 1000 ppm CO Resolution: 1 ppm CO Accuracy: ±5% or ±10 ppm

Dimensions: 6.3 x 2.2 x 1.6" (160 x 56 x 40mm)

Weight: 6.4 oz (180g)

Carbon Monoxide Meter

orked evaluation convot CVISION PDEC

\$220



CO-180

Ad Voltage Detector

Stud/metal/AC voltage finder with laser line level.

 Select Normal Scan, detect up to 3/4" depth, or Deep Scan, detection up to 1-1/2" depth

 180° pivoting laser plane with level and plumb vials

Thumb dial adjustment feet for leveling the laser

• 20' laser line projection onto work surface with 90° squaring

LED display with continuous live wire detection

 LCD sensing and mode display with target graphics

Vertical and horizontal mounting hole

Easy key pad operation

Ergonomically designed for comfort and grip

Operated on a single 9V battery (included)

Dimensions: 180 x 67 x 38mm

• Weight: 180g

LA-1010 **CA-03** 

Stud/Metal/AC Voltage Detector **Soft Carrying Case** 

569

\$18

# AG Voltage Detector

Non-contact voltage detector with built-in flashlight.

Detects voltage without contact

Built-in flashlight with on/off button

Flashing red LED indicator

• For use on 50/60 Hz circuits

Double molded plastic housing

· All outer surfaces are nonconductive for safety

Cat. IIII 1000V safety rating

Convenient packet clip

AC Voltage Range: 90 to 600V Power Supply: 2 x 1.5V "AAA" batteries Dimensions: 6.25 x 1" (159 x 25mm) Weight: 1.5 oz (42g)

AC-9

**AC Voltage Detector** 

\$15

### Test Leads

#### Model 518-6 Safety test leads.

 $\bullet$  Lead tip is made of .080" dia.  $\times$  5/8" long stainless steel with polished tip

Probe is molded flame retardant ABS plastic

with a 3/4" safety ring Wire is 18 ga. (65 x 36) tinned copper stranding, rubber insulation 0.145" dia.

Sheathed male banana plugs with slide on alligator clips

• Standard length is 4 feet • Sold as sets (1 red, 1 black)

### Model 582 Basic test leads.

 Lead tip is made of .080" dia. x 1/2" long brass tip threaded 8-32 for attachments (nickel plated)

 Probe is molded flame retardant ABS plastic with a 3/4" safety ring

• Wire is 18 ga. (65 x 36) tinned copper stranding, rubber insulation 0.145" dia.

20kV breakdown, 5kV working
Rated 1000V, 10A
Tapered strain relief
Standard length is 4 feet

Sold as sets (1 red, 1 black)

518-6 582

Safety Test Leads **Basic Test Leads** 

\$22

Voltage Detector/Multimeter

Non-contact voltage detector and DMM with built-in flashlight.

Autoranging digital multimeter

Non-contact voltage detector

· Built-in flashlight

Diode check and continuity

2000-count LCD readout

Auto power off

 Double molded housing and test leads

• 0.2A/500V resettable fuse protection

 EN610101 Cat. III, 1000V safety rating

Complete with test leads and AM-4 batteries

AC/DC Voltage Range: 600V

Resistance Range: 20MΩ

AC/DC Current Range: 200mA

ST-118

Multimeter/Voltage Detector

### Multimeter

A credit card-size, full-function DMM that fits easily into your pocket.

 Measure AC and DC voltages, AC and DC current, resistance, diode, and perform audible continuity checks with accuracy

 Accuracy is guaranteed for 1 year, 73°F ±3°F, less than 75% RH

Auto power-off function

 Small and lightweight, with batteries (HI721301), a carrying case and test leads wound on its body

AC/DC Current Range: 40mA, 400mA

Resolution: 0.01mA, 0.1mA

Accuracy: AC: ±3.0% rdg. ±0.5% f.s. ±3 dgt.; DC: ±2.0% rdg. ±2 dgt.

AC/DC Voltage Range: 4V, 40V, 400V, 600V

Resolution: 1mV, 10mV, 100mV, 1V

Accuracy: AC:  $\pm 0.8\%$  rdg.  $\pm 0.5\%$  f.s.  $\pm 3$  dgt.; DC:  $\pm 0.8\%$  rdg.  $\pm 2$  dgt. Resistance Range:  $400\Omega$ ,  $4k\Omega$ ,  $40k\Omega$ ,  $40k\Omega$ ,  $4M\Omega$ ,  $40M\Omega$ 

Resolution:  $0.1\Omega$ ,  $1\Omega$ ,  $10\Omega$ , 0.1k $\Omega$ , 1k $\Omega$ , 10k $\Omega$ 

Accuracy: ±1.5% rdg. ±2 dgt.

Dimensions: 4.7 x 2.6 x 0.5" (120 x 66 x 12mm)

Weight: 4.0 oz (115g)

M320

Multimeter

529

### Test Leads

#### Fused test lead set.

• Lead length: 1.4 meters

 Compatible with all instruments that accept standard 4mm shrouded banana connectors

FC-300

**Fused Test Lead Set Replacement Fuses**  \$29

FC-300-0.2A/250V

# Multimeter Combo Kit

Multimeter and clamp meter combo kit.

• Includes:

**ST-922** autoranging digital multimeter with temperature function;

**ST-9800T** AC/DC current clamp meter with temperature function;

AC-9 non-contact voltage detector with built-in flashlight;

AC-006 AC line splitter;

AD-1 temperature input adapter with TP-01 thermocouple wire probe

ST-MULTIKIT

DMM/Clamp Meter Kit

REED

\$250

# Multimeter Combo Kit

Multimeter and infrared thermometer combo kit.

• Includes:

**ST-922** autoranging digital multimeter with temperature function;

**ST-882** infrared thermometer with laser sighting;

AC-9 non-contact voltage detector with built-in flashlight;

AC-006 AC line splitter;

AD-1 temperature input adapter with TP-01 thermocouple wire probe



ST-TEMPKIT

**DMM/IR Thermometer Kit** 

\$195

## Multimeter Combo Kit

Multimeter and clamp meter combo kit.

• Includes:

**ST-9933** True RMS AC/DC multimeter with temperature function;

**ST-335** AC clamp meter with temperature function;

AC-9 non-contact voltage detector with built-in flashlight;

AD-1 temperature input adapter with TP-01 thermocouple wire probe;

TL-88-1 safety test leads



ST-INDUSKIT

**Industrial Combo Kit** 

\$199

### Multimeter Combo Kit

Clamp meter and voltage/ continuity tester combo kit.

• Includes:

**ST-335** AC clamp meter with temperature function;

ST-9902N voltage/continuity

AC-9 non-contact voltage detector with built-in flashlight;

AD-1 temperature input adapter with TP-01 thermocouple wire probe;

TL-88-1 safety test leads



ST-ELECTRICKIT

Jr. Electrician Combo Kit

\$129

### Multimeter Combo Kit

True RMS multimeter and clamp meter combo kit.

• Includes:

**ST-9933** True RMS AC/DC multimeter with temperature function;

ST-3347 True RMS AC/DC clamp meter with temperature function;

AC-9 non-contact voltage detector with built-in flashlight;

AD-1 temperature input adapter with TP-01 thermocouple wire probe;

TL-88-1 safety test leads



ST-HVACKIT

**HVAC Combo Kit** 

### Insulation Tester

#### Digital insulation tester.

- Test voltage combinations: 250V, 500V or 1000V
- 1 mA test current for  $M\Omega$  range at rated voltage
- 200mA test current for continuity range
- Continuity test with beeper
- · Easy-to-read dual display with backlight
- Data hold switch
- Test button may be locked on for handsfree operation
- Double molded plastic housing
- Supplied with test leads, batteries and carrying case
- Meets IEC61010-1 Cat. III 1000V

#### **INSULATION RESISTANCE TESTS**

Test Voltage: 250V, 500V, 1000V Measurement Range: 200MΩ, 2000MΩ Accuracy: ±3.5% rdg. ±5 dgt.

RESISTANCE TESTS

Measurement Range:  $200\Omega$ ,  $2000\Omega$  Accuracy:  $\pm 1\%$  rdg.  $\pm 2$  dgt.

VOLTAGE TESTS

Measurement Range: 750VAC; 1000VDC

Accuracy: AC: ±1.2% rdg ±10 dgt.; DC: ±0.8% rdg ±3 dgt.

CONTINUITY TESTS

Measurement Range: Beeps ≤40Ω

Test Current: ≤200mA

Power Supply: 6 x 1.5V AA batteries

Dimensions/Weight: 200 x 92 x 50mm/700g

ST-5500

**Insulation Tester** 

\$189

### Insulation Tester

#### Digital insulation tester.

- Test voltage combinations: 250V, 500V or 1000V
- Insulation measurements to 4000MΩ
- ullet Resistance measurements to  $4000\Omega$
- Continuity test with beeper
- 600V AC/DC test voltage range
- Data hold switch
- Test button may be locked on for hands-free operation
- Automatic discharge when test button is released
- Low battery indication
- Supplied with soft carrying case and leads

C-360

**Insulation Tester** 



\$279

### Insulation Tester

#### Analog insulation tester.

- 3-range insulation test voltage
- 200mA continuity test
- Live circuit warning lamp
- Automatic discharge of circuit capacitance when test button is released
- Press-to-Test button with lock down feature
- Includes test leads, spare fuse, batteries and carrying case



Test Voltages: 250V, 500V, 1000V

Measuring Ranges:  $100M\Omega$ ,  $200M\Omega$ ,  $400M\Omega$ 

Mid-scale Values:  $1M\Omega$ ,  $2M\Omega$ ,  $4M\Omega$ Accuracy:  $\pm 5\%$  of indicated value

CONTINUITY

Measuring Range:  $500\Omega$ Accuracy:  $\pm 3\%$  of scale length

Power Supply: 8 x 1.5V "AA" batteries (included) Dimensions/Weight: 143 x 93 x 63mm/500g

KEW3111V

**Insulation Tester** 

\$380

## Ground Resistance Tester

### Ground resistance clamp meter.

- ullet Resolution of  $0.001\Omega$  for low resistance measurements
- Stores up to 99 resistance measurements
- ullet User selectable alarm threshold from 1 to  $100\Omega$
- Measures leakage current to 1mA and neutral current to 20A
- 4-digit, 2000-count LCD with display Hold
- Doubly insulated conductor clamp for extra security
- Large jaws open to 1.8 x 1.3"/45 x 32mm
- Includes hard carrying case and batteries

Resistance Range: 1, 10, 100, 200, 400, 600,  $1200\Omega$ 

Resolution: 0.001, 0.01, 0.1, 1, 5, 10,  $20\Omega$ 

Accuracy: ±1.5%, ±1.5%, ±2.0%, ±3.0%, ±6.0%,

±10%, ±20%

Current Range: 100, 300mA, 1, 3, 10, 20A

Resolution: 0.01, 0.03mA, 0.001, 0.003, 0.01, 0.03A

Accuracy: ±2.5%

Power Supply: 6 x NiMh 1.2V "AAA" batteries Dimensions: 2.1 x 4.1 x 10.9" (54 x 104 x 276mm)

Weight: 37 oz (1050 g)

MS2301

**Ground Resistance Clamp Meter** 

\$1495

REED

<u>•</u>

0.0 \*

# Phase Sequence/Motor Rotation Tester

### Tests phase orientation of 3-phase power sources.

- 5 LEDs indicate phase orientation clockwise, counter-clockwise and whether each of the 3 phases is live
- Input Voltage: 100 to 660 VAC (3-minute limit over 500 VAC)
- Powered by unit under test
- Low power consumption (less than 7mA) per phase
- Complete with 3 colour-coded alligator clips
- Dimensions: 4 x 2 x 1" (100 x 50 x 25mm)
- Weight: 0.33 lb (150g)

RT-606 Phase Sequence Tester



Combines the functions of the RT-606 with a motor rotation tester.

- Indicates phase orientation, as well as ensures motor is not damaged from incorrect wiring
- Frequency Range: 40 to 70 Hz
- Power Supply for Motor Rotation Tester: Single 9V battery
- Motor rotation tester consumes approx. 14mA
- Complete with 40cm cables, colour-coded alligator clips and 9V battery
- Dimensions/Weight: 5.9 x 3.4 x 1.6" (150 x 85 x 40mm)/0.5 lb (230g)

T-608 Phase S

Phase Sequence/Motor Rotation Tester

H-SEL CO CC



### Infrared Thermometer

Easy-to-use infrared thermometers, just point, shoot and read.

Precise non-contact temperature measurements

Built-in laser pointer identifies target area

LCD with backlight and display hold

User selectable °F or °C

 Includes battery and carrying case Model ST-8839:

Adjustable emissivity

• 50:1 distance to spot size ratio

High and low alarm setpoints

Max, Min and Diff. Avg. displays

Temperature Range: ST-8819:

-58.0 to 1022°F (-50.0 to 550°C); ST-8839: -58.0 to 1832°F

(-50.0 to 1000°C)

Resolution: 0.1° ≤ 200°; 1° > 200°

Accuracy: ±2% of reading

Optical Resolution: ST-8819: 12:1;

ST-8839: 50:1

Emissivity: ST-8819: Fixed at 0.95; ST-8839: Adjustable, 0.10 to 1.0

Power Supply: Single 9V battery

Dimensions/Weight: 9 x 3.9 x 2.2" (230 x 100 x 56mm)/10.2 oz (290g)

ST-8819 ST-8839

Infrared Thermometer Infrared Thermometer

\$179 \$289

### Infrared Thermometer

Pocket-sized infrared thermometer that is completely portable and extremely easy to use.

• Built-in laser pointer identifies target area

User selectable °F or °C

Fixed emissivity of 0.95

Optical resolution of 6:1

Auto data hold, Max hold and Auto shut off

Overload and low battery indications

Includes batteries

Temperature Range: -4 to 518°F (-20 to 270°C)

Resolution: 1°F/1°C

Accuracy: ±2.5% of reading Optical Resolution: 6:1 Emissivity: Fixed at 0.95

Power Supply: Single 9V battery

Dimensions: 3.7 x 2.1 x 1" (94 x 56 x 28mm)

Weight: 2.7 oz (76g)

Infrared Thermometer **IR-88** 

# Infrared Thermometer

Infrared thermometers provide fast, accurate, non-contact temperature measurements.

Built-in laser pointer identifies target area

User selectable °F or °C

Fixed emissivity of 0.95

• Optical resolution of 8:1

Display backlighting

 Overrange indicator, Auto data hold (when trigger released) and Auto shut off

Includes battery and carrying case

Temperature Range: \$T-880: -58 to 536°F (-50 to 280°C); ST-882: -58 to 1022°F

(-50 to 550°C)

Resolution: 1°F (1°C) Accuracy: ±2% of reading Optical Resolution: 8:1

Emissivity: Fixed at 0.95 Power Supply: Single 9V battery

Dimensions/Weight: 6.3 x 3.2 x 1.6" (160 x 82 x 41 mm)/6.4 oz (177g)

ST-880 ST-882 Infrared Thermometer Infrared Thermometer 589

\$109

### Infrared Thermometer

Quickly scan surface temperatures without contact or risk of cross-contamination.

 HACCP Check indicates at a glance whether food temperatures are in safe ranges

 Verify internal temperature measurements with flip-down RTD probe

 Unique targeting system illuminates the area being measured • User selectable °F or °C

Integrated count down timer
 Backlit display

Maximum temperature display

IR Temp. Range: -40 to 280°C (-40 to 536°F) Accuracy: ±0.1% rdg. ±1°C (2°F): <0°C (30°F); ±1°C (2°F): 0/65°C (32/149°F);

±1.5% rdg.: >65°C (149°F)

RTD Temp. Range: -40 to 200°C (-40 to 392°F) Accuracy: ±1°C (2°F): -40/-5°C (-40/23°F);

±0.5°C (1°F): -5/65°C (23/149°F);

±1.0% rdg. ±1°C (2°F): >65°C (149°F)

Resolution: 0.1°C (0.2°F)

Emissivity: Fixed at 0.97 Optical Resolution: 3:1 Distance:Spot Size

Power Supply: Single 9V alkaline battery

Dimensions: 167 x 61.5 x 35.5mm; Probe 82mm

FP8838

Infrared Food Service Thermometer

5139

### Infrared Thermometer

2-in-1 thermometer combines infrared and K-thermocouple temperature measurement.

- Infrared thermometer with integral type K thermocouple input • Built-in laser pointer identifies target area
- Adjustable emissivity with automatic emissivity capture • 30:1 distance to spot size ratio • High and low alarms
- Fahrenheit/Celsius switchable Display backlighting Max, Min, Avg, Diff record
   20 data points of memory
- Auto data hold and auto shut off
   Trigger lock
- Over range and polarity indications
- Includes type K thermocouple probe, battery, and carrying case



T/C Temperature Range: -50 to 1370C (-58 to 2498°F) Resolution:  $0.1^{\circ}\text{C}$ : -50 to  $1370^{\circ}\text{C}$ ;  $0.1^{\circ}\text{F} \le 1999.9^{\circ}\text{F}$ ;  $1^{\circ}\text{F} > 2000^{\circ}\text{F}$ Accuracy: ±1.5% rdg. +3°C (+5°F): -50 to 1000°C (-58 to 1832°F); ±1.5% rdg. +2°C (3.6°F):1000 to 1370°C (1832 to 2498°F)

IR Temperature Range: -50 to 1050°C (-58 to 1922°F)

Resolution: 0.1°C (0.1°F)

Accuracy: ±5°C (±9°F): -50 to -20°C (-58 to -4°F); ±1.5% rdg. +2°C (+3.6°F): -20 to 200°C (-4 to 392°F); ±2.0% rdg. +2°C (+3.6°F): 200 to 538°C (392

to 1000°F); ±3.5% rdg. +5°C (+9°C): 538 to 1050°C (1000 to 1922°F)

Optical Resolution: 30:1 Spectral Response: 8 to 14 µm

Emissivity: Digitally adjustable from 0.10 to 1.0 Laser: Output < 1 mW, wavelength 630~670nm, Class II diode laser

Response Time: < 1 second Power Supply: Single 9V battery Dimensions/Weight: 100 x 56 x 230mm (39. x 2.2 x 9.0")/290g (10.2 oz)

ST-8835

Infrared Thermometer w/ Type K T/C

# Stem Thermometer

### Waterproof digital stem thermometer.

- Waterproof construction
- Range: -40 to 450°F/ -40 to 230°C
- Accuracy; ±1.0°F; 0 to 230°F; ±3.6°F;  $< 0^{\circ}F$  and  $> 230^{\circ}F$
- Resolution: 0.1°F/°C
- Calibration adjustment screw
   Display updates every 2 seconds
- Durable 5" stainless steel stem
   1.5V battery included

**Digital Stem Thermometer** 

REED OF SOUNCE

\$24

### Professional cooking stem thermometer.

Temp/RH Data Logger

Monitors both ambient temperature

Easy to read LCD display

Range: -40 to 302°F/-40 to 150°C

and relative humidity.

16,000 humidity readings

min values are exceeded

Stores up to 16,000 temperature and

Alarm display if user-defined max/

· Displays all status information through

Simply plug the logger into the USB port

of your computer to begin download-

Accuracy: ±1°C or ±2°F

 Resolution: 0.1°F/°C • 4.75" stainless

steel stem Display updates

once per second 1.5V battery included

DT130

**Digital Stem Thermometer** 

\$19

# Temperature Simulator

#### Temperature simulator.

Includes test leads, soft carrying case and batteries

#### **OUTPUT FUNCTION**

#### Voltage Range/Resolution:

- -10.00 to 110.00mV/0.01mV;
- -100.00 to 1100.0mV/0.1mV

#### Resistance Range/Resolution: 0.0 to $400.0\Omega/0.1\Omega$

### Thermocouple Range/Resolution:

- R: -40 to 1760°C/1°C;
- S: -20 to 1760°C/1°C;
- B: 400 to 1800°C/1°C
- E: -200.0 to 1000.0°C/ 0.1°C; K: -200.0 to 1370.0°C/0.1°C;
- J: -200.0 to 1200.0°C/0.1°C;
- T: -200.0 to 400.0°C/0.1°C;
- N: -200.0 to 1300.0°C/0.1°C

Thermo-resistance Range/Resolution: Pt100: -200.0 to 850.0°C/0.1°C;

Cu50: -50.0 to 150.0°C/0.1°C Power Supply: Single 9V battery

Dimensions/Weight: 200 x 100 x 40mm/550g

VC01

Temperature Simulator

\$395

#### ing - no cables or wires are required Includes wall mount bracket and Windows compatible software

two LEDs

Temperature Range: -40 to 70°C (-40 to 158°F)

Accuracy: ±2°C (±3.6°F): -40 to 10°C & 40 to 70°C (-40 to 14°F &

104 to 158°F);  $\pm 1^{\circ}$ C ( $\pm 1.8^{\circ}$ F): 10 to 40°C (14 to 104°F)

Humidity Range: 0 to 100% RH

Accuracy: ±5.0%: 0 to 20% & 80 to 100%; ±3.5%: 20 to 40% & 60 to

80%; ±3.0%: 40 to 60%

Sampling Rate: User selectable rate: 2s, 5s, 10s, 30s, 1m, 5m, 10m,

30m, 1h, 2h, 3h, 6h, 12h, 24h Power Supply: 3.6V lithium battery

Dimensions/Weight: 130 x 30 x 25mm/20 g

ST-171

Temperature/RH Data Logger

\$89

# Temperature Galibrator

### Temperature calibrator.

- 6-digit LCD readout ±0.02% accuracy Automatic cold-end temperature offset
- Select 2-wire/3-wire/4-wire connection
- Includes test leads, soft carrying case and batteries

#### **OUTPUT FUNCTION**

#### Voltage Range/Resolution:

- -10.000 to 110.000mV/10µV;
- -0.10000 to 1.10000V/0.01mV

#### Resistance Range/Resolution: 0.00 to 400.00Ω/00.1Ω

Thermocouple Range/Resolution:

- R: -40 to 1760°C/1°C; S: -20 to 1760°C/1°C; B: 400 to 1800°C/1°C; E: -200.0 to 1000.0°C/0.1°C;
- K: -200.0 to 1370.0°C/0.1°C; J: -200.0 to 1200.0°C/0.1°C; T: -200.0 to 400.0°C/0.1°C; N: -200.0 to 1300.0°C/0.1°C

Thermo-resistance Range/Resolution: Pt100: -200.0 to 850.0°C/0.1°C; Cu50: -50.0 to 150.0°C/0.1°C

#### MEASUREMENT FUNCTION

Voltage Range/Resolution: 0.00 to ±450.00mV/10μV Resistance Range/Resolution: 0.00 to  $450.00\Omega/00.1\Omega$ 

Thermocouple & Thermo-resistance Range: Same as per Output Function

**VC14** 

Temperature Calibrator

# Temp/RH Data Logger

### Easy to use data logger records up to 64,000 temperature and humidity readings.

- 32,000 records per channel
   °F or °C selectable
- LCD display with LED backlight
- Real-time clock stores data and time
- Memory and battery status displays
- Program by "Slim-Com" RS-232 interface and Windows® compatible software
- Includes Model 345 communication base

#### Temperature Range:

-22 to 158°F (-30 to 70°C) Resolution: 0.1°F (0.1°C)

Accuracy: ±0.8°F (±0.4°C) Humidity Range: 0 to 100% RH

Resolution: 0.1% RH Accuracy: ±3% RH

Power Supply: 2 x 1.5V AAA batteries Dimensions: 92 x 55 x 22mm

ked evaluation copy of CVICION DE

C-342/345

Temperature/RH Data Logger

### Tachometer

Patented design incorporates both a photo and a contact tachometer into one precision instrument.

 Automatically holds last reading for 5 minutes and recallsminimum and maximum readings

 Characters on the 5-digit display reverse direction depending on which measurement mode you are in

• Microcomputer LSI circuitry provides accuracy to 0.05% and permits readings to a resolution of 0.1 RPM in either photo or contact mode

ABS plastic housing

• Designed to fit comfortably in either hand

• Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape and hard carrying case

Photo Range: 5 to 99,999 rpm Contact Range: 0.5 to 20,000 rpm

Surface Speed Range: 0.05 to 1,999.9 mpm/

0.2 to 6,560 fpm Accuracy:  $\pm (0.5\% + 1 \text{ digit})$ 

Sampling Time: Photo: 1 sec. > 6 rpm;

Contact: 1 sec. > 60 rpm

Detecting Distance: 50 to 150mm (2 to 6") typically;

300mm (12") max.

Power Supply: (4) 1.5V "AA" batteries

Dimensions: 8.5 x 2.6 x 1.5" (215 x 65 x 38mm)

Weight: 0.66 lb (300g)

K4010

**Photo-Contact Tachometer** 

\$279

REED K4010

PHOTO/CONTACT TACHOMETER

REED DT-1236L

€ Laser type

### Tachometer

Versatile contact and non-contact operation, as well as laser sighting, in one compact unit.

Surface speed measurements in fpm or mpm

Retains Min/Max and last reading

 Automatic reverse display direction depending on which measurementmode you are in

 Laser light for improved accuracy at a greater distance in photo mode

Highly visible LCD readout

 Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape and hard carrying case

Photo Range: 10 to 99,999 rpm Resolution: 0.1 rpm ≤ 999.9 rpm;

1 rpm > 1000 rpm

Contact Range: 0.5 to 19,999 rpm Resolution: 0.1 rpm ≤ 999.9 rpm;

1 rpm > 1000 rpm

Surface Speed Range: 0.05 to 1,999.9 mpm/

0.2 to 6560 fpm

Resolution: 0.01mpm ≤ 99.99 mpm;  $0.1 \text{ mpm} > 100 \text{ mpm}/0.1 \text{ fpm} \le$ 999.9 fpm;1 fpm >1000 fpm

Accuracy:  $\pm (0.5\% + 1 \text{ digit})$ 

Sampling Rate: Photo: 1 sec. over 60 rpm;

Contact: 1 sec. over 6 rpm Detection Distance: 50 to 2,000mm

Laser: Class 2 red laser diode, 645nm wavelength Power Supply: 4 x 1.5V "AA" batteries

Dimensions: 8.5 x 2.6 x 1.5" (215 x 65 x 38mm)

Weight: 0.66 lb (300g)

DT-1236L

**Photo-Contact Tachometer** 

### Tachometer

#### A laser light source provides for improved accuracy of rpm measurements!

 Non-contact measurement of rpm of rotating objects facilitated by integral light beam

Recalls Max/Min and last values

Large, easy to read display

Autoranging with 0.05% accuracy

Includes battery and carrying case

Photo Range: 2.5 to 99,999 rpm Accuracy:  $\pm (0.5\% + 1 \text{ digit})$ Sampling Rate: 1/second Dimensions: 6.3 x 2.8 x 1.5" Weight: 7.9 oz



Fast and accurate rpm and surface speed measurements of rotating objects.

 Dual function unit with both contact and non-contact capabilities

· Supplied with adapters for mpm, rpm and surface speed measurements

 Non-contact function utilizes laser light beam for improved accuracy

Recalls Max/Min and last values

Large, easy to read display

Autoranging with 0.05% accuracy

Includes battery and carrying case

Photo Range: 5 to 99,999 rpm Contact Range: 5 to 19,999 rpm

Surface Speed Range: 0.05 to 1,999 mpm Accuracy:  $\pm(0.5\% + 1 \text{ digit})$ 

Sampling Rate: 1/second Dimensions: 6.3 x 2.8 x 1.5" Weight: 7.9 oz

ST-6234B ST-6236B

**Photo Tachometer Photo-Contact Tachometer**  \$179

\$159

## Stroboscope

Ideal for quality control, motion analysis, maintenance procedures, and speed measurements of motors.

 Simply aim and synchronize the strobe's flash rate (fpm) with the speed (rpm) of the object

Direct reading of RPMs

• Exclusive one-chip microcomputer LSI circuit and quartz crystal control timebase assures accuracy of ±1%

4-digit, 0.3" high LED display

Duty cycles from 5 to 30 minutes (depending on RPM range)

Tripod mountable AC operated with 6-foot power cord

Flash Range: 100 to 100,000 fpm (flashes per minute)

Resolution: 1 rpm/fpm

Accuracy: ±1%: 100 to 5000 fpm; ±0.05%: ≥ 5000 fpm

Sampling Rate: 1/second

Power Supply: 110 VAC, 50/60 Hz

Dimensions/Weight: 8.3 x 4.8 x 4.8" (210 x 120 x 120mm]/2.2 (1kg)

K4020

luation copy Stokosters ON PDFCongress 1

### Anemometer

#### A compact and lightweight vane anemometer that is easy-to-use.

- Measuring Units: m/s, kph, mph, fpm and knots
- Data hold, Record (Max/Min)
- Integral vane design for one hand operation
- Push button operation
- Includes battery

Air Velocity Range: 0.2 to 30.0 m/s; 1.4 to 108.0 kph; 0.9 to 67.0 mph; 80 to 5910 fpm; 0.8 to 58.3 knots

Dimensions: 6.1 x 2.4 x 1.3" (156 x 60 x 33mm)

Weight: 8.8 oz (160g)

LM-81AM

Anemometer

\$99

### Thermo-Anemometer

Designed to provide fast and accurate air velocity and temperature readings.

- Separate rotating vane anemometer sensor
- Type K sensor for temperature measurements
- Large, 3-1/2 digit LCD readout
- Data hold and Max hold functions
- Includes soft carrying case and batteries

Air Velocity Range: 0.0 to 45.0 m/s; 0.0 to 140.0 kph; 0.0 to 88.0 knots Temperature Range: 0 to 60.0°C;

32.0 to 140.0°F

Dimensions: Meter: 150 x 72 x 35mm;

Vane: 132 x 66 x 29mm Weight: Meter: 210g; Vane: 35g

ST-618

Thermo-Anemometer

\$179

# Thermo-Anemometer

### All-in-one thermo-anemometers with integral rotary vane sensors.

Simultaneous display or air velocity and temperature

· Continuous moving air velocity averaging of measurements for up to 2 hours

Displays Min/Max/Avg velocity with temperature values

Multi-point averaging up to 8 points

High-contrast, 4-digit LCD readout

RS-232 interface

Data hold and auto power off

 Includes hard carrying case & batteries Model 8906:

- Selectable wind speed units
- Calculate average velocity values
- Calculate air volume by keying in area dimension

#### Air Velocity Range:

8903: 80 to 5900 fpm; 0.4 to 30 m/s 8906: 80 to 6900 fpm; 0.4 to 35 m/s;

0.9 to 78 mph; 1.4 to 126 kph;

0.8 to 68 knots

Temperature Range: 14 to 122°F (-10 to 50°C)

Power Supply: Single 9V battery
Dimensions/Weight: 181 x 76 x 45mm/210g

8903 8906 Thermo-Anemometer

Thermo-Anemometer

Hot wire anemometer is ideal for measuring low air velocities.

· Simultaneously displays air velocity and temperature

Measuring Units: m/s, kph, fpm, mph, knots
Data hold, Record (Max/Min)

• RS232 serial interface

• Includes telescopic probe w/ 1m cable, 6 x "AAA" batteries and hard carrying case

Air Velocity Range: 0.2 to 20.0 m/s; 0.7 to 72.0 kph; 0.5 to 44.7 mph; 40 to 3940 fpm; 1.0 to 31.1 knots Temperature Range: 32 to 122°F (0 to 50°C)

Power Supply: Single 9V battery Dimensions/Weight: 180 x 72 x 32mm/381g

AM-4204

Thermo-Anemometer

\$439

HOT WERE ANEMONETER

REED ST-8890

### Manometer

#### Digital manometer.

- Measure gauge and differential pressure from 0 to 5 psi
- 11 selectable units of measure
- Dual LCD readouts with backlighting
- Min/Max/Avg recording with time stamp
- Data hold freezes the displayed reading
- Push button zero adjust and offset readings
- Data Hold and low power indications
- RS-232 serial port
- Includes RS232 cable, tubing, carrying case and batteries

Pressure Ranges: 5.000 psi; 138.3 in H<sub>2</sub>O; 0.344 bar; 344.7 mbar, 34.47 kPa; 1.018 inHg; 258.5 mmHg, 80.00 oz in2; 11.53 ft H<sub>2</sub>O; 351.5 cmH<sub>2</sub>O; 0.351 kg cm<sup>2</sup>

Accuracy: ±0.3% f.s. Repeatability: ±0.2% f.s. Hysteresis: ±0.29% f.s. Max. Pressure: 5 psi

ST-8890

Manometer

\$159

### Manometer

Digital manometer displays gauge or differential pressure in 11 selectable measuring units.

- Digital display of gauge or differential pressure
- Select from one of 11 different pressure units: psi, kph, mbar, bar, cmH2O, mmHg, oz-in2, kg/cm2, in H<sub>2</sub>O, ft H<sub>2</sub>O
- Data hold
   Max/Min Record
- Display backlight
- Auto power off
   Low battery indicator
- Simple fittings for hose connection
- Optional RS-232 interface
- Includes hard carrying case, 9V battery, connection hose and manual

Pressure Ranges: 8230: 0 to 30 psi; 82100: 0 to 100 psi

Maximum Pressure: 8230: 60 psi; 82100: 150 psi

Accuracy: ±0.3% of full scale at 25°C

Linearity & Hysteresis: ±0.29% FSO Repeatability: ±0.2% FSO

Power Supply: 9V alkaline battery, included Dimensions: 2.8 x 7.2 x 1.2" (72 x 182 x 30 mm)

ed evaluation copy of CVISION DDEC

Weight: 5.5 oz (150g)

8230 82100

Manometer, 0 to 30 psi Manometer, 0 to 100 psi \$1*75* \$195







### Multi-function Meter

4-in-1 multi-function meter... light meter, anemometer, humidity meter, and type-K digital thermometer.

Measures ambient temperature and input temperature

Choice of units of measure for air velocity and temperature

Data Hold, Record (Max/Min)

Includes battery

Light Range: 0 to 20,000 Lux; 0 to 2,000 F-c Air Velocity Range: 0.2 to 30.0 m/s; 1.4 to 108.0 kph; 0.9 to 67.0 mph; 80 to 5910 fpm; 0.8 to 58.3 knots Humidity Range: 10 to 95% RH

Temperature Range: Air: 32 to 122°F (0 to 50°C);

Input: -148 to 2372°F (-100 to 1300°C)

Dimensions/Weight: 6.1 x 2.4 x 1.3" (156 x 60 x 33mm)/8.8 oz (160g)

LM-8000

**Multi-function Meter** 

\$195

### Heat Stress Meter

#### Measures air and globe temperatures and humidity to determine heat stress index.

 Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement and radiant heat

 Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface

 Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and radiant sunlight

 In/Out function displays the WBGT value with or without direct sun exposure

View individual temperatures or indices in either °F or °C

User adjustable WBGT threshold with audible alarm

Auto power off with override
 Built-in RS-232 interface

Tripod mount design for longterm monitoring

Air Temp. Range: 0.0 to 50.0°C (32 to 122°F) Accuracy: ±0.6°C (±1.1°F)

Black Globe Temp. Range: 0.0 to 80.0°C (32 to 176°F)

Accuracy: ±1°C: 15 to 40°C, ±1.5°C: r.o.r. for indoor; ±1.5°C: 15 to 40°C, ±2°C: rest of range for outdoor WBGT Temp. Range: 0.0 to 50.0°C (32 to 122°F)

Humidity Range: 0 to 100% RH

Accuracy: ±3% RH: 10 to 90% RH, ±5% RH: rest of range

Power Supply: 2 x AAA batteries

Dimensions: 10 x 1.9 x 1.1" (254 x 49 x 30mm) Black Ball Dimensions: 1.6" dia. x 1.4"H (40 x 35mm)

8778

**Heat Stress Meter** 

\$225

288

### Photo Tachometer

#### Provides fast and accurate rpm measurements of rotating objects without contact.

Laser targeting
 Provides Total measurements

- · Built-in memory recalls maximum, minimum values as well as last value stored
- Highly visible 5-digit LCD with backlight
- Includes reflective tape, carrying case and batteries

Measruing Range: 2 to 99,999 rpm Accuracy: ±(0.05% rdg. + 1 dgt.)

Resolution: 0.1 rpm ≤ 999.9 rpm; 1 rpm >1000 rpm

Sampling Time: 0.5 sec over 120 rpm Detection Distance: 50 to 500mm Power Supply: Single 9V battery

Dimensions/Weight: 160 x 58 x 39mm/151g

**Photo Tachometer** 

REED

AT-6 TACHOMETER

Sound Level Data Logger

Sound level datalogger plugs directly into your computer.

Conforms to IEC61672-1 Class 2 sound level meters

• 1/2" electret condenser microphone

A and C frequency weighting

• Fast and Slow time weighting

Normal (average of 20 data samples) and Peak modes

Max and Min measurements

· User selectable sampling intervals

Data storage capacity of 129,920 samples

• Includes: Microphone windscreen, transparent cap, software CD, metal support stand & battery

Integral USB port

Measuring Range: 30 to 130 dB

Accuracy: ±1.4 dB

Frequency Range: 31.5 Hz to 8 kHz

Time Weighting: Fast: 125ms; Slow: 1s Sampling Intervals: Selectable from 1 second to 24 hours

Power Supply/Battery Life: 1 x 3.6V battery/Approx. 200 hours

Dimensions: 144 x 27 x 14mm

ST-173

Sound Level Data Logger

\$139

### Multimeter

#### AC/DC autoranging multimeter with temperature function.

Auto and manual ranging

Data Hold and Relative functions

Diode check and continuity functions

Auto shut off

4000-count LCD display with backlight

• Includes AD-1 temperature input dapter, TP-01 type K thermocouple wire probe, TL-88-1 test leads, 6AM6X 9V battery & rubber holster

AC/DC Current Range: 10A AC/DC Voltage Range: 600V Resistance Range:  $40M\Omega$ Capacitance Range: 200µF Frequency Range: 9.999MHz

Temperature Range: 760°F (400°C)

Dimensions/Weight: 5.75 x 2.6 x 1.7" (146 x 66 x 42mm)/7.0 oz (200g)

ST-202

AC/DC Multimeter w/Temperature

\$79

## Video Inspection Scope

#### Ideal for quick, non-destructive inspections of hard-to-see locations.

• Palm-sized videoscope that is equipped with an LED light source, TFT display, micro-camera and digital recorder

 3.5" extra-wide view angle camera takes high resolution 640 x 480 pictures and TFT monitor provides clear, full images with minimal image loss

 Video ouput function can transfer video images to a remote monitor or TV

 With 4 high-brightness white LED light sources, every detail of you target can be illuminated

Stepless illumination adjustment

 Optimized illuminated design can highlight most cracks and burn marks on highly reflective surfaces

• 5.5mm O.D. probe can be inserted through most openings

• Easily install different probe assemblies right in the field

1GB memory card can hold 28,000 photos

Video Insposition Score BDEC





MIGS-6100