PRECISION
TEST & MEASUREMENT
INSTRUMENTS

PRODUCT GUIDE

REED
TEST & MEASURE
INSTRUMENTS

THERMOGRAPHY | HVAC | SAFETY | ELECTRICAL | INDUSTRIAL

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REED
80 x 80
Thermal Imager
More Features!
Great Price!

R2050

We are proud - offer our customers with quality products at economical prices.

1 YEAR WARRANTY   **REED**

WE BACK UP ALL OUR PRODUCTS WITH A STANDARD 1 YEAR WARRANTY.

MINI POCKET MULTIMETER

- Pocket-sized, auto-ranging digital multimeter
- Measures AC/DC voltage and current, resistance, frequency, capacitance and duty cycle
- Diode test and continuity check functions
- Cat. II, 600V safety rating
- Includes test leads, battery and carrying case

Specifications
DC Voltage Range: 400mV, 4, 40, 400, 600V
AC Voltage Range: 4, 40, 400, 600V
AC/DC Current Range: 400, 4000μA, 40, 400mA
Resistance Range: 400Ω, 4, 40, 400kΩ, 4, 40MΩ
Frequency Range: 99.9Hz, 0.999, 9.99, 99.9kHz
Capacitance Range: 4.000, 40.00, 400.0nF, 4.000, 40.00, 100μF

MODEL	DESCRIPTION
R5006	Mini Pocket Multimeter

POCKET MULTIMETER + NCV

- Auto-ranging multimeter & non-contact voltage detector
- Built-in flashlight
- Diode check and continuity test
- Cat. III, 1000V safety rating
- Includes test leads and batteries

Specifications
AC Voltage Range: 2.000, 20.00, 200.0, 600V
DC Voltage Range: 200mV, 2.000, 20.00, 200.0, 600V
AC/DC Current Range: 200.0, 2000μA, 20.00, 200mA
Resistance Range: 200.0Ω, 2.000, 20.00, 200.0kΩ, 2.000, 20.00MΩ

MODEL	DESCRIPTION
ST-118	Pocket Multimeter + NCV
CA-05A	Soft Carrying Case

TRMS WATERPROOF DIGITAL MULTIMETER

- True RMS AC/DC voltage and current measurements
- Measures frequency, capacitance and temperature
- 4-20 mA process loop measurements with % readout
- Data hold, Max/Min recording mode
- IP67 Rated (Dust and Waterproof)
- Cat. IV, 600V & Cat. III, 1000V safety ratings
- Includes temperature input adapter, Type K thermocouple wire probe, test leads, battery and carrying case

Specifications
AC/DC Voltage Range: 1000V
AC/DC Current Range: 10A
Resistance Range: 40MΩ
Frequency Range: 10MHz
Capacitance Range: 40mF
Duty Cycle Range: 99.9%
Temperature Range: 1400°F (760°C)

MODEL	DESCRIPTION
R5010	True RMS Waterproof Digital Multimeter
FC-300	Fused Test Lead Set

AUTORANGING MULTIMETER

- Auto ranging AC/DC digital multimeter with temperature function
- Diode check and continuity test
- Data hold function
- Double molded plastic housing
- Cat. III, 600V safety rating
- Includes temperature input adapter, type K thermocouple wire probe, test leads, battery and carrying case

Specifications

AC/DC Voltage Range.: 600V

AC/DC Current Range: 10A

Resistance Range: 40MΩ

Frequency Range: 10MHz

Capacitance Range: 200µF

Duty Cycle Range: 99.9%

Temperature Range: 1400°F (760°C)

MODEL	DESCRIPTION
R5008	Autoranging Multimeter
FC-300	Fused Test Lead Set

TRMS AUTORANGING MULTIMETER + NCV

- Measures AC/DC voltage and current, resistance, frequency ratio, variable frequency voltage (VFC) capacitance and temperature
- True RMS AC voltage and current measurements
- Also capable of detecting non-contact AC voltage and current measurements (with optional clamp-on adapter)
- Diode test and continuity check functions
- Max/Min, Data hold and Relative modes
- Auto and manual ranging
- Cat. III, 600V safety rating
- Includes test leads, type K thermocouple probe with adapter and batteries

Specifications

AC/DC Voltage Range: 60.00, 600.0mV, 6.000, 60.00, 600.0V, 600V

AC/DC Current Range: 600.0, 6000µA, 60.00, 600.0mA, 6.000, 10.00A

Resistance Range: 600.0Ω, 6.000, 60.00, 600.0kΩ, 6.000, 60.00MΩ

Capacitance Range: 9.999nF, 99.99nF to 999.9µF, 9.999 to 99.99mF

VFC Range: 200.0 to 600V

Frequency Range: 9.999Hz to 9.999MHz

Temperature Range: -40 to 1832°F (-40 to 1000°C)

Duty Cycle: 0.1 to 99.9%

Diode Test: Around 3V

MODEL	DESCRIPTION
R5007	TRMS Autoranging Multimeter + NCV
R5900	Magnetic Hanging Strap
FC-300	Fused Test Lead Set

TRMS BLUETOOTH/WATERPROOF MULTIMETER

- AC and DC voltage and current, resistance, capacitance, frequency and duty cycle measurements
- 10MHz frequency counter
- Temperature measurement capability
- True RMS AC voltage and current measurements
- Min/Max/Avg and Peak hold (>1ms) functions
- Store up to 10,000 recorded events
- Log multiple sessions or log data continuously for over 200 hours
- Bluetooth interface
- IP67 Rated (Dust and Waterproof)
- Includes test leads, Type K temperature probe, rechargeable battery and software

Specifications

AC/DC Voltage Range: 50, 500mV, 5, 50, 500, 1000V
AC/DC Current Range: 500, 5000µA, 50, 500mA, 10A
Resistance Range: 50, 500Ω, 5, 50, 500kΩ, 5, 50MΩ
Capacitance Range: 5, 50, 500nF, 5, 50, 500µF, 10mF
Frequency Range: 50, 500Hz, 5, 50, 500kHz, 5, 10MHz
Temperature Range: -58 to 1832°F (-50 to 1000°C)

MODEL	DESCRIPTION
R5005	True RMS Multimeter
FC-300	Fused Test Lead Set

AC CURRENT ADAPTER

- Ideal tool to extend the current range for all multimeters
- Voltage output of 1 mV/A via standard banana inputs

Specifications

AC Current Range: 200A

MODEL	DESCRIPTION
CP-09	AC Current Adapter

AC/DC CURRENT ADAPTER

- Converts any digital multimeter into an AC/DC current clamp

Specifications

AC/DC Current Range: 200A, 2000A

MODEL	DESCRIPTION
CA-203	AC/DC Current Adapter

AC CLAMP METER + NCV, 400A

- Measures AC current, AC and DC voltage, resistance, capacitance, as well as temperature with the included Type K thermocouple probe
- Diode test and continuity check
- Cat. III, 600V safety rating
- Includes test leads, temperature probe, batteries and carrying case

Specifications

AC Current Range: 40.00, 400.0 A
DC Voltage Range: 400.0mV, 4.000, 40.00, 400.0, 600.0V
AC Voltage Range: 4.000, 40.00, 400.0, 600.0V
Resistance Range: 400.0Ω, 4.000, 40.00, 400.0kΩ, 4.000, 40.00MΩ
Capacitance Range: 40.00, 400.0nF, 4.000, 40.00, 100.0µF
Temperature Range: -4.0 to 1400.0°F (-20.0 to 760.0°C)

MODEL	DESCRIPTION
R5020	AC Clamp Meter, 400A
FC-300	Fused Test Lead Set

TRMS AC/DC CLAMP METER + NCV, 500A

- Measures AC/DC current, AC/DC voltage, resistance, capacitance, frequency, duty cycle & temperature with a type K thermocouple probe
- Non-contact AC voltage detector in clamp tip
- Max/Min, Data hold and Relative functions
- Cat. III, 600V safety rating
- Includes test leads, temperature probe, batteries and carrying case

Specifications

AC/DC Current Range: 50.00, 500.0A
AC Voltage Range: 500.00mV, 5.0000, 50.000, 500.00, 750.0V
DC Voltage Range: 500.00mV, 5.0000, 50.000, 500.00, 1000.0V
Resistance Range: 500.00Ω, 5.000, 50.000, 500.00kΩ, 5.0000, 50.000MΩ
Frequency Range: 10.000kHz
Capacitance Range: 500.00, 5000.0nF, 50.00, 500.0µF, 5.000mF
Temperature Range: 148.0 to 1832.0°F (-100.0 to 1000.0°C)

MODEL	DESCRIPTION
R5030	TRMS AC/DC Clamp Meter + NCV, 500A
FC-300	Fused Test Lead Set

TRMS AC/DC CLAMP METER + NCV, 1000A

- Measures AC and DC voltage and current, resistance, capacitance and frequency as well as temperature with the included type K thermocouple probe
- Diode and continuity test with beeper
- Max/Min and Relative (zero) functions
- Cat. III, 600V safety rating
- Includes test leads, temperature probe, battery and carrying case

Specifications

AC/DC Current Range: 500.00, 1000.0A
AC Voltage Range: 500.00mV, 5.000, 50.00, 500.0, 750.0V
DC Voltage Range: 500.00mV, 5.000, 50.00, 500.0, 1000.0V
Resistance Range: 500.00Ω, 5.000, 50.00, 500.0kΩ, 5.000, 50.00MΩ
Capacitance Range: 500.00, 5000.0nF, 50.00, 500.0µF, 5.000mF
Frequency Range: 10.000kHz
Temperature Range: -148.0 to 1832.0°F (-100.0 to 1000.0°C)

MODEL	DESCRIPTION
R5040	TRMS AC/DC Clamp Meter, 1000A
FC-300	Fused Test Lead Set

TRMS AC/DC CLAMP METER, 1000A

- Max/Min and Data Hold functions
- Peak Hold function
- Diode and continuity test with beeper
- Auto or manual ranging
- Cat. II, 1000V & Cat. III, 600V safety ratings
- Includes test leads, battery and carrying case

Specifications

Current Range: 40A, 400A, 1000A AC/DC
Voltage Range: AC: 400V, 750V; DC: 400V, 1000V
Resistance Range: 400Ω, 4000Ω
Frequency Range: A & V: 4kHz, 10kHz

MODEL	DESCRIPTION
R5050	TRMS AC/DC Clamp Meter, 1000A
FC-300	Fused Test Lead Set

TRMS AC/DC CLAMP METER, 2000A

- Full function autoranging digital multimeter includes AC/DC voltage, current, resistance, capacitance, frequency, duty cycle, diode and continuity
- DC current push button zero, relative measurements and data hold
- Cat. III, 1000V safety rating
- Includes test leads and battery

Specifications

AC/DC Current Range: 400A, 2000A
AC Voltage Range: 4V, 40V, 400V, 1000V
DC Voltage Range: 400mV
Resistance Range: 400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ
Frequency Range: 5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 100kHz
Capacitance Range: 50nF, 500nF, 5µF, 50µF

MODEL	DESCRIPTION
CM-9930	TRMS AC/DC Clamp Meter, 2000A
FC-300	Fused Test Lead Set
CA-05A	Soft Carrying Case

EARTH RESISTANCE CLAMP METER

- Resolution of 0.001Ω for low resistance measurements
- Stores up to 99 resistance measurements
- Measures leakage current to 1mA and neutral current to 20A
- Includes 3 resistance calibration loops (1Ω, 5Ω and 10Ω), batteries and hard carrying case

Specifications

Resistance Range: 0.01-0.999Ω, 1-9.99Ω, 10-99.9Ω, 100-199.9Ω, 200-400Ω, 400-600Ω, 600-1200Ω
Current Range: 100mA, 300mA, 1A, 3A, 10A, 20A

MODEL	DESCRIPTION
MS2301	Earth Resistance Clamp Meter

AC LEAKAGE CURRENT TESTER

- 10µA resolution
- Max/Min and Data hold
- Overload protection
- Includes test leads, batteries and soft carrying case

Specifications

Current Range: 40mA to 100A AC
Voltage Range: 400 VAC
Resistance Range: 40 to 400Ω
Continuity Test: 40Ω threshold, beeper at 2.5kHz

MODEL	DESCRIPTION
ST-9809	AC Leakge Current Tester
FC-300	Fused Test Lead Set

INSULATION TESTER

- Test voltage combinations: 250V, 500V or 1000V
- 1mA test current for MΩ range at rated voltage
- 200mA test current for continuity range
- Continuity test with beeper
- Data hold switch
- Test button may be locked on for hands-free operation
- Cat. III, 1000V safety rating
- Includes test leads, batteries and hard carrying case

Specifications

Test Voltages: 250V, 500V, 1000V
Insulation Resistance Range: 200MΩ, 2000MΩ
Resistance Range: 200Ω, 2000Ω
Voltage Range: 750VAC; 1000VDC
Continuity Range: Beeps ≤40Ω
Test Current: ≤200mA

MODEL	DESCRIPTION
R5600	Insulation Tester
FC-300	Fused Test Lead Set

INSULATION TESTER

- Wide range measurements from 500V to 5000V and up to 60GΩ
- Sources up to 1.2mA current during tests to
  offset capacitance load
- Polarization index measurement (PI)
- Dielectric absorption ratio measurements (DAR)
- Max/Min, Peak, Relative value and Data Hold functions
- Cat. IV, 600V safety rating
- Includes test leads, batteries and carrying case

Specifications

Insulation Resistance
Test Voltages: 500V, 1000V, 2500V, 5000V DC
Measurement Range: 0 to 60.0GΩ
Resistance Tests
Measurement Range: 0.1 to 6000Ω
Voltage Tests
Measurement Range: 0.5 to 600.0V AC/DC

MODEL	DESCRIPTION
R5002	Insulation Tester

3-PHASE & MOTOR ROTATION TESTER

- Tests phase orientation of 3-phase power sources
- Indicates phase orientation (clockwise or counter-clockwise and whether each of the three phases is live)
- Easy to open alligator clips with wide jaws
- Cat. III, 600V safety rating
- Includes cables with 3 color-coded alligator clips, battery and carrying case

Specifications

Input Voltage: 40 to 600 VAC
Operating Frequency: 2 to 400 Hz

MODEL	DESCRIPTION
R5004	3-phase & Motor Rotation Tester

DUAL INPUT TRMS AC VOLTAGE/ CURRENT DATA LOGGER

- Simultaneously measure 2 True RMS AC voltage inputs OR 2 AC current inputs OR 1 AC voltage and 1 AC current input
- User programmable sample rates from 1 second to 24 hours
- Stores up to 256,000 measurements
- User programmable high/low alarms
- LCD indicates time/date, current readings, Max/Min, Peak hold and whether alarm settings have been exceeded
- Download collected data through USB interface
- Includes AC current clamp sensor and voltage sensor, USB cable, software and battery

Specifications

AC Current Range: 10 to 200A; Accuracy: ±(2% rdg. ±1A)
AC Voltage Range: 10 to 600V; Accuracy: ±(2% rdg. ±1V)

MODEL	DESCRIPTION
R5003	Dual Input TRMS AC Voltage/Current Data Logger

WATT METER

- True RMS Current and Voltage measurements
- Measures Watt (AC), AC A, AC V, and pF
- Large dual display LCD with Backlight
- Full function Auto Range
- Max & Min. Record
- Data Hold
- RS232 Computer Interface
- Low-Battery Indicator
- Includes 1 Pair of Test Leads (Red & Black)

MODEL	DESCRIPTION	
R5000	Watt Meter	
FC-300	Fused Test Lead Set	
CA-05A	Soft Carrying Case	

DECADE BOXES

- 3 binding posts permit isolated substitutions
- Slide switches allow user to simply add or subtract for desired value
- Excellent for circuit development

Specifications

CBOX-406
Range: 100 pF to 11,111 μF, 5 ranges
Resolution: CBOX-406: 100 pF per step
Accuracy: ±1% of reading

RBOX-408
Range: 1 to 11,111,110Ω, 7 ranges
Resolution: RBOX-408: 1Ω increments
Accuracy: ±1% of reading

MODEL	DESCRIPTION
CBOX-406	Capacitance Decade Box
RBOX-408	Resistance Decade Box

MILLIOHMMETER

- 4 terminal input for high accuracy of low resistance
- Measuring Range: 0.1mΩ to 2000Ω, 5 ranges
- Large LCD display
- LSI circuitry provides high accuracy, reliabilityand durability
- Zero adjustment
- Built-in overload protection
- Includes 4-wire with 2 Kelvin clips

MODEL	DESCRIPTION
K5090	Milliohmmeter, 110V
K5090-230V	Milliohmmeter, 230V

LCR METER

- Measure inductance/capacitance/resistance with secondary parameters including dissipation factor (D), quality factor (Q), phase angle (Ø), equivalent series/parallel resistance (ESR or Rp)
- Autoranging operation for AC impedance and DE resistance measurement
- Auto LCR smart check and measurement
- Series/Parallel modes
- Ls/Lp/Cp with D/Q/Ø/ESR parameters
- Support DCR mode 200 to 200MΩ
- High accuracy with 4 or 5 terminal Kelvin measurement
- Testing frequency is up to 10kHz and output frequency is up to 100kHz
- IP67 Rated (Dust and Waterproof)
- Includes test leads and batteries

Specifications

Inductance (F=1kHz)
Range: 2000.0μH/20.000/200.0/2000.0mH/20.000/200.00/2000.0H
Capacitance (F=1kHz)
Range: 2000.0pF/20.000/200.00/2000.0nF/20.00/200.00/2000μF
Resistance (F=1kHz)
Range: 20.000/200.00Ω/2.0000/20.000/200.00kΩ/2.0000/20.000/200.0MΩ
Test Frequencies: 100/120/1k/10k/100k Hz

MODEL	DESCRIPTION
R5001	LCR Meter

VOLTAGE/CURRENT CALIBRATOR

- Measure and calibrate current signals
- Provides a precise current and DC mV source
- Able to power or measure a 2-wire current loop
- Drives loads up to 500Ω
- LCD display with a maximum of 1999 counts
- Includes test leads and battery

Specifications

Source & Measurement
Current Range: 0 to 19.99mA; 0 to 24mA
Resolution: 0.01mA; 0.1mA
Accuracy: ±(0.25% f.s. + 1 dgt.); ±(0.5% f.s. + 1 dgt.)
DC mV Source
Voltage Range: -199.9mV to +199.9mV
Resolution: 0.1mV
Accuracy: ±(0.25% f.s. + 1 dgt.)

MODEL	DESCRIPTION
R8800	Voltage/Current Calibrator
CA-05A	Soft Carrying Case

VOLTAGE/CURRENT CALIBRATOR

- Measure loop current (0-22 mA) signals with very high accuracy of 0.03% and 0.001 mA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 22 mA loop current
- Source voltage to 20V
- 24V loop supply with simultaneous current measurement
- Ramp output function
- USB computer interface
- Includes test leads, USB cable and software, battery and carrying case

Specifications

Source & Measurement
Current Range: 0 to 22mA
Resolution: 0.001mA
Accuracy: ±(0.03% f.s. + 2 dgt.)
Voltage Range: 0 to 20V
Resolution: 0.001V
Accuracy: ±(0.03% f.s. + 2 dgt.)
Loop Power Supply: 24VDC
Accuracy: ±10%

MODEL	DESCRIPTION
R8801	Voltage/Current Calibrator

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VOLTAGE/CURRENT SIMULATOR

- Sources voltage and current
- Automatic calibration
- User selectable auto power-off
- Selectable step or ramp outputs
- Includes test leads, alligator clips, protective holster, carrying case and battery

Specifications

DC Voltage Range: 10V
Output Range: 0.00 to 11.000V
Accuracy: ±0.05% setting
DC Current Range: 20mA
Output Range: 0.000 to 22.000mA
Accuracy: ±0.05% setting + 4μA
Analog Transducer: -20mA
Output Range: 0.000 to -22.000mA
Accuracy: ±0.05% setting + 4μA
Loop Power: 24V
Accuracy: ±10%

MODEL	DESCRIPTION
VC04	Voltage/Current Simulator

LOOP CALIBRATOR

- mA sourcing, simulation and measurement
- 0-28 VDC measurement to check loop voltage
- Simulate mA and % of span display
- 24V loop power supply
- 0.02% accuracy and 0.001% of span display
- Selectable step or ramp outputs
- Includes test leads, alligator clips, protective holster, soft carrying case and battery

Specifications

Measurement Function
DC Voltage Range: 28V
Output Range: -0.200 to 28.000V
Accuracy: ±0.02% reading ± 2mV
DC Current Range: 20mA
Output Range: -1.000 to 22.000mA
Accuracy: ±0.02% reading + 4μA
Loop Current Range: 20mA
Output Range: 0.000 to 22.000mA
Accuracy: ±0.02% reading + 4μA
Output Function
Current Range: 20mA
Output Range: 0.000 to 22.000mA
Accuracy: ±0.05% setting + 4μA
Analog Transducer: -20mA
Output Range: 0.000 to -22.000mA
Accuracy: ±0.05% setting + 4μA
Loop Power: 24V
Accuracy: ±10%

MODEL	DESCRIPTION
VC05	Loop Calibrator

MULTIMETER COMBO KIT

Includes the following:
• REED R5008 Autoranging Multimeter
• REED R5040 TRMS AC/DC Clamp Meter,
  1000A
• REED R5100 AC Voltage Detector
  with Flashlight
• REED AC-006 AC Line Splitter
• REED TL-88-1 Safety Test Leads
• REED TP-01 Type K Thermocouple
  Wire Probe
• REED AD-1 Temperature Input Adapter
• REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-MULTIKIT	Multimeter Combo Kit

ELECTRICIAN'S COMBO KIT

Includes the following:
• REED R5020 AC Clamp Meter, 400A
• REED R5006 Autoranging Multimeter
• REED R5100 AC Voltage Detector
  with Flashlight
• REED AD-1 Temperature Input Adapter
• REED TL-88-1 Safety Test Leads
• REED TP-01 Type K Thermocouple
  Wire Probe
• REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-ELECTRICKIT	Electrician's Combo Kit

ELECTRICIAN'S COMBO KIT

Includes the following:
• REED R5010 True RMS Waterproof
  Digital Multimeter
• REED AD-1 Temperature Input Adapter
• REED TP-01 Type K Thermocouple
  Wire Probe
• REED TL-88-1 Safety Test Leads
• REED CP-09 AC Current Adapter
• REED AC-006 AC Line Splitter
• REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-ELECTRICKIT2	Electrician's Combo Kit

INDUSTRIAL COMBO KIT

Includes the following:
- REED R5010 True RMS Waterproof Digital Multimeter
- REED R5020 AC Clamp Meter, 400A
- REED R5100 AC Voltage Detector with Flashlight
- REED TL-88-1 Safety Test Leads
- REED TP-01 Type K Thermocouple Wire Probe
- REED AD-1 Temperature Input Adapter
- REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-INDUSKIT	Industrial Combo Kit

HVAC COMBO KIT

Includes the following:
- REED R5010 True RMS Waterproof Digital Multimeter
- REED R5030 TRMS AC/DC Clamp Meter + NCV, 500A
- REED R5100 AC Voltage Detector with Flashlight
- REED AD-1 Temperature Input Adapter
- REED TL-88-1 Safety Test Leads
- REED TP-01 Type K Thermocouple Wire Probe
- REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-HVACKIT	HVAC Combo Kit

ELECTRICAL COMBO KIT

Includes the following:
- REED R2100 Thermal Imaging Camera, 160x120
- REED LM-8000 Environmental Meter
- REED R5010 True RMS Waterproof Digital Multimeter
- REED CP-09 AC Current Adapter
- REED AC-006 AC Line Splitter

MODEL	DESCRIPTION
REED-ELECTRICAL-KIT	Electrical Combo Kit

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INDUSTRIAL TEST LEADS

Model FC-108:
• ø4mm, 100cm long safety test leads (one black, one red)
• Right angle sheathed banana plug to straight sheathed banana plug

To be used in conjunction with FC-108:

Model FC-A23:
• Safety alligator clips
Model CF-734760:
• Push-on safety test clips with insulated, nickel-plated jaws for gripping objects up to 3/8"
Model FC-105:
• Tips include banana-style spring contacts with nickel-plated brass ends
Model FC-105A:
• Push-on safety test probes with stainless steel tips
Model FC-170A:
• Industrial test probes with stainless steel tips
Model FC-178A:
• Safety jaw clips
Model FC-A18:
• Tapered tips for probing electronic components or boards

MODEL	DESCRIPTION
FC-108	Safety Test Leads
FC-A23	Safety Alligator Clips
CF-734760	Safety Test Clips
FC-105	Basic Test Probes
FC-105A	Safety Test Probes
FC-170A	Safety Test Probes
FC-178A	Safety Jaw Clips
FC-A18	Electronic Test Probes

INDUSTRIAL TEST LEADS

Model TL-88-1 Safety Test Leads
• Set of two 48" long leads, one black and one red
• Flexible insulated silicone safety test leads are heat and cold resistant
• Distinctive comfort grip test probes with stainless steel tips
Model FC-A15 Safety Alligator Clips
• Slide-on style for test probes
• Jaws open to 8mm
Model TL-88-A15 Safety Test Leads
• Same as above with FC-A15 alligator clips
Model FC-300 Fused Test Leads
• Fused test lead set
• Lead length: 1.4 meters
• Compatible with all instruments that accept standard 4mm shrouded banana connectors
Model P-15
Weatherproof Plug

FC-300-0.2A/250V

MODEL	DESCRIPTION
TL-88-1	Safety Test Leads
FC-A15	Safety Alligator Clips
TL-88-A15	Safety Test Leads w/ Alligator Clips
FC-300	Fused Test Leads
FC-300-0.2A/250V	Replacement Fuses
P-15	Weatherproof Plugs

INDUSTRIAL TEST LEAD KITS

Model FC-108G Safety Test Leads Kit
• FC-108 safety test leads
• FC-A23 alligator clips
• FC-105A test probes
• CA-52A carrying case

Model FC-A23G
Deluxe Safety Test Leads Kit
• TL-88-1 safety test leads
• FC-108 safety test leads
• FC-A15 alligator clips
• FC-A23 alligator clips
• FC-A18 electronic test probes
• FC-105 test probes
• FC-105A test probes
• FC-170A industrial test probes
• FC-178A safety jaw clips
• CF-734760 test clips
• CA-05A carrying case

MODEL	DESCRIPTION
FC-108G	Safety Test Lead Kit
FC-A23G	Deluxe Safety Test Lead Kit

AC LINE SPLITTER

• Enables clamp meter user to measure AC current on a 2-wire or 3-wire power cord to 15A
• Plugging the power connector into the line splitter separates the hot/ live conductor from the neutral and ground
• Provides safe measurements of current without the need to cut off the plug and separate the conductors
• Voltage check function

MODEL	DESCRIPTION
AC-006	AC Line Splitter

TEMPERATURE INPUT ADAPTER

• Converts a type K probe with a mini connector to standard 3/4" banana jacks

MODEL	DESCRIPTION
AD-1	Temperature Input Adapter

AC VOLTAGE DETECTOR WITH FLASHLIGHT

- Detects the presence of AC voltage without contact
- Signals the presence of voltage with an LED light and audible buzzer
- Built-in flashlight
- Double insulated housing for increased safety
- Cat. III, 1000V & Cat. IV, 600V safety ratings
- Includes batteries

Specifications:

AC Voltage Range: 90 to 1000V
Max. Working Current: 32mA

MODEL	DESCRIPTION
R5100	AC Voltage Detector with Flashlight

OUTLET CIRCUIT TESTER

- Verifies that the outlet can provide power to a device
- Tests whether the outlet is properly wired
- Performs the entire array of tests by simply plugging the device into the outlet once and observing the state of the lights
- Easy to read light pattern chart is printed on tester, enabling the user to quickly match the results to the corresponding wiring problem

Specifications:

Rated Working Voltage: 110 to 125 VAC

MODEL	DESCRIPTION
R5200	Outlet Circuit Tester

CIRCUIT BREAKER FINDER/ RECEPTACLE TESTER

- 3-in-1: Circuit Breaker Finder, Circuit Tester and GFCI Receptacle Tester
- Identify correct circuit breaker protecting a specific electrical circuit without service interruption
- Consists of a transmitter and a receiver
- Transmitter generates a signal by a plug style tool that also verifies the correct wiring of outlets with colored LED's and includes GFCI test functionality
- With the transmitter plugged in and the receiver at the circuit breaker panel, the receiver will detect the signature emitted from the transmitter and confirm the line between receptacle and circuit
- As the receiver scans over the breaker panel, an audible alarm ("tick" sound) and bright LED (flashing red) will alert the user as it approaches the breaker associated with the circuit under test
- Adjustable sensitivity to help quickly identify circuit breaker
- Receiver operates on one 9 volt battery (included)

Specifications:

Rated Working Voltage: 90 to 120 VAC
Power Supply: 9V battery (receiver)

MODEL	DESCRIPTION
R5500	Circuit Breaker Finder/Receptacle Tester

INFRARED THERMOMETER, 8:1, 536°F (280°C)

- Safely measure surface temperatures of hot, hazardous or hard-to-reach objects without contact
- Built-in laser pointer identifies target area
- Fixed emissivity covers 90% of applications
- Display backlight
- Includes battery

Specifications

Temperature Range: -58 to 536°F (-50 to 280°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±2% of reading or 4°F (2°C)
Distance to Spot Ratio: 8:1
Emissivity: Fixed at 0.95
Spectral Response: 8 to 14μm

MODEL	DESCRIPTION
R2001	IR Thermometer, 8:1, 536°F (280°C)

COMPACT INFRARED THERMOMETER, 8:1, 932°F (500°C)

- Precise non-contact temperature measurements
- Built-in laser pointer identifies target area
- Fixed emissivity covers 90% of all applications
- Automatic ambient temperature compensation
- Max/Min temperature display
- Trigger lock
- Includes battery and carrying case

Specifications

Temperature Range: -58 to 932°F (-50 to 500°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±2% of reading or 4°F (2°C)
Distance to Spot Ratio: 8:1
Emissivity: Fixed at 0.95
Spectral Response: 6 to 14μm

MODEL	DESCRIPTION
R2002	Compact IR Thermometer, 8:1, 932°F (500°C)

INFRARED THERMOMETER 30:1, 1922°F (1050°C), TYPE K T/C

- IR thermometer with Type K thermocouple input
- Adjustable emissivity from 0.10 to 1.0
- High and low alarms
- Max, Min, Avg, Diff record
- 20 data points of memory
- Trigger lock
- Includes Type K T/C probe, battery and carrying case

Specifications

Type K Temp. Range: -58.0 to 2498°F (-50.0 to 1370°C)
IR Temp. Range: -58.0 to 1922.0°F (-50.0 to 1050.0°C)
Distance to Spot Ratio: 30:1
Emissivity: Adjustable from 0.10 to 1.0
Spectral Response: 8 to 14μm

MODEL	DESCRIPTION
R2005	IR Thermometer 30:1, 2498°F (1370°C)

INFRARED THERMOMETER, 50:1, 2012°F (1100°C)

- Built-in dual lasers to assist with target area identification
- 50:1 distance to spot ratio measures smaller surface areas at a greater distance
- Digitally adjustable emissivity from 0.10 to 1.0
- High and low alarm set points
- Max, Min and Dif. Avg. temperature displays
- Large LCD with backlight and display hold
- Includes battery and soft carrying case

Specifications

Temperature Range: -58 to 2012°F (-50 to 1100°C)
Accuracy: ±2% rdg. or 2°C
Distance to Spot Ratio: 50:1
Emissivity: Adjustable from 0.10 to 1.0

MODEL	DESCRIPTION
R2007	IR Thermometer, 50:1, 2012°F (1100°C)

FOOD SERVICE INFRARED THERMOMETER, 8:1, 392°F (200°C)

- Designed to meet food service industry requirements
- User settable alarm, with audible/visual signal if temperature is exceeded, assures food safety by maintaining optimal temperatures for the cooking, serving and storing of food products
- Fixed emissivity covers 90% of all applications
- Includes battery and carrying case

Specifications

Temperature Range: -58 to 392°F (-50 to 200°C)
Resolution: 0.1°F (0.1°C)
Accuracy: +/-2% of reading or 4°F (2°C)
Distance to Spot Ratio: 8:1
Emissivity: Fixed at 0.95

MODEL	DESCRIPTION
FS-200	Food Service IR Thermometer, 8:1, 329°F (200°C)

VIDEO INFRARED THERMOMETER

- Dual lasers identify exact measuring spot where they converge
- Adjustable emissivity from 0.10 to 1.00
- Type K thermocouple input
- Air temperature, humidity, dew point and wet bulb temperature measurement
- 2.2" TFT color LCD and built-in 640 x 480 pixels camera
- Transmit images and videos via USB interface
- Datalogger capabilites with date and time
- Includes type K thermocouple probe, AC adapter, USB adapter, mini-tripod and hard carrying case

Specifications

IR Temp. Range: -58 to 3992°F (-50 to 2200°C)
Distance to Spot Ratio: 50:1
Spectral Response: 8 to 14μm
Emissivity: Adjustable from 0.10 to 1.00
Type K Temp. Range: -58 to 2498°F (-50 to 1370°C)
Accuracy: ±0.5% or 0.9°F (±0.5°C)
Air Temp. Range: 32 to 122°F (0 to 50°C)
Dew Point & Wet Bulb Temp. Range: 32 to 122°F (0 to 50°C)
Humidity Range: 0 to 100% RH

MODEL	DESCRIPTION
R2020	Video Infrared Thermometer

REED

THE THERMOGRAPHY SPECIALISTS

THERMOGRAPHY is an accurate and non-destructive method to assess the condition of industrial, mechanical and electrical equipment through temperature mapping.

Some applications include:

- Plant/General Maintenance
- HVAC/R & Plumbing
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food Service Equipment
- Cold Storage
- Home & Building Inspection
- Electrical & Mechanical Inspection
- Predictive Maintenance
- Health & Safety
- Equine & Veterinary
- Road Construction
- Workplace Ergonomics

THERMAL IMAGING CAMERA, 80x80

- Infrared resolution of 80 x 80 (6,400 pixels)
- High thermal sensitivity of 0.1°F (0.1°C)
- 2.8" color 240 x 320 pixel LCD display
- Built-in laser and white LED flashlight
- 5 Megapixel digital camera
- 32X continuous digital zoom
- Infrared and visual images and picture-in-picture with infrared overlay
- Automatic hot/cold spot indicator
- Automatic level/span function
- Automatic power off
- 4 infrared color palettes
- Video recording with voice annotations
- 8Gb micro SD memory card
- 7 languages
- 2m drop tested

Specifications

IR Resolution: 80 × 80 (6,400 pixels)
Thermal Sensitivity / NETD:
    < 0.1°F @ +86°F (+30°C) / 100 mK
Temperature Range: -4°F to +302°F (-20°C to +150°C);
    +32°F to +662°F (0°C to +350°C)
Accuracy: ±3.6°F (±2°C) or ±2% of reading
Spot: Center Spot
Built-in Digital Camera: 5 Megapixels
Display: 2.8" LCD, 240 × 320 pixels
Image Modes: IR image, Visual image, Picture-in-Picture
Storage Media: 8GB Micro SD Card
Video Output: HDMI
Drop Tested: 2m

MODEL	DESCRIPTION
R2050	Thermal Imaging Camera, 80x80
R2050-3.7V	Spare Battery

THERMAL IMAGING CAMERA, 160x120

High Resolution IR Images
19,200 pixels (160 x 120) Infrared resolution

Visible Light Digital Camera
640x480 resolution with flash provides sharp images regardless of lighting conditions

Picture in Picture
Displays thermal image super-imposed over a digital image

LED Flashlight
Allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range
From -4 to 752°F (-20 to 400°C) targeting electrical and industrial applications

±3.6°F% (±2°C%) Accuracy
Reliable temperature measurement

Thumbnail View
Easy to view and analyze images quickly

Automatic Lens Recognition
Automatically identifies the temperature
calibration data associated with each of
the interchangeable lenses

Audio Recorded with the Video Image
A speaker to listen to audio recorded with
the video image

Capacitive Touch Screen
More easy, productive and effective to operate

Lithium Polymer Rechargeable Battery
Lasts >4hrs continuous use; replaceable

Copy to USB
Easily uploads images from camera to USB memory card

Area (Min/Max) Mode
Shows the Minimum or the Maximum
Temperature reading in the selected area

INTERCHANGEABLE LENSES

• Increase camera resolution at longer distances
• No camera calibration required

Standard Lens (included)
29.8° 7.5mm Lens

RL-11 Replacement Lens
20.6° 11mm Lens

D:S @ 50': 26.64 x 19.98'
Resolution = 2" (51mm)

D:S @ 50': 18.16 x 13.62'
Resolution = 1.36" (35mm)

REED

Specifications

IR Resolution: 160 x 120 pixels

Field of View: 29.8 x 22.6°

Thermal Sensitivity (NETD): <0.08°C (80mK)

Temperature Range: -4 to 752°F (-20 to 400°C)

Accuracy: ±3.6°F (±2°C) or ±2% of reading

Screen Size: 3.5" color TFT LCD

Focus: Manual

Image Mode: Infrared, visual image, picture-in-picture visual image with infrared overlay

Storage Media: 4GB micro SD card

Drop Test: 2m

INTERCHANGEABLE LENSES

RL-22 Replacement Lens
10.4° 22mm Lens

D:S @ 50': 9.12 x 6.84'
Resolution = 0.68" (17mm)

RL-33 Replacement Lens
6.9° 33mm Lens

D:S @ 50': 6.08 x 4.56'
Resolution = 0.46" (12mm)

MODEL	DESCRIPTION
R2100	Thermal Imaging Camera, 160x120
RL-11	20.6° 11mm Replacement Lens
RL-22	10.4° 22mm Replacement Lens
RL-33	6.9° 33mm Replacement Lens
R2100-7.4V	Spare Battery

HVAC COMBO KIT

Includes the following:
• REED R2100 Thermal Imaging
  Camera, 160x120
• REED R3002 Differential
  Pressure Manometer, 0 to 5psi
• REED R5100 AC Voltage Detector
  with Flashlight
• REED GD-3300 Combustible
  Gas Detector
• REED R6020 Temperature/
  Humidity Data Logger

MODEL	DESCRIPTION
REED-HVAC-KIT	HVAC Combo Kit

BUILDING COMBO KIT

Includes the following:
• REED R2100 Thermal Imaging
  Camera, 160x120
• REED 8706 Digital Psychrometer
• REED R6013 Pin-type
  Moisture Meter
• REED R6010 Pinless
  Moisture Meter

MODEL	DESCRIPTION
REED-BUILDING-KIT	Building Combo Kit

HOME INSPECTION COMBO KIT

Includes the following:
• REED 8706 Digital Psychrometer
• REED R6015 Wood Moisture Detector
• REED R6010 Pinless Moisture Meter
• REED R8002 Laser Distance Meter
• REED R2001 Infrared Thermometer
• REED C-833R Soft Carrying Case

MODEL	DESCRIPTION
ST-INSPECTKIT	Home Inspection Combo Kit

DIGITAL STEM THERMOMETER

- Stainless steel stem thermometer offers a quick response and laboratory accuracy
- Waterproof construction
- Easy to read LCD display
- Fahrenheit/Celsius switchable
- Display updates every 2 seconds
- Front panel calibration button
- Includes protective probe cover and battery

Specifications

Temperature Range: -40 to 450°F (-40 to 230°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±1.0°F: 0 to 230°F; ±3.6°F: <0°F & >230°F

MODEL	DESCRIPTION
R2000	Digital Stem Thermometer

DIGITAL STEM THERMOMETER

- Stainless steel stem thermometer offers a quick response and laboratory accuracy
- Easy to read LCD display
- Fahrenheit/Celsius switchable
- Display updates every 2 seconds
- Max/Min memory records highest and lowest temperatures
- Data Hold button lets you freeze a reading
- Auto power off
- Includes protective probe cover and battery

Specifications

Temperature Range: -40 to 482°F (-40 to 250°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±1.5% of reading ±2°

MODEL	DESCRIPTION
R2222	Digital Stem Thermometer

WATERPROOF RTD THERMOMETER

- Platinum resistor temperature sensor requires less temperature compensation than thermocouple units
- Selectable sensor types: Pt-100, Pt-500, Pt-1000 (4 wires)
- °F/°C switchable
- Min/Max/Avg functions
- Relative mode and Data hold
- Low battery indication with auto power off
- IP67 Rated (Dust and Waterproof)
- Includes piercing type temperature probe

Specifications

Temperature Range: -148 to 572°F (-100 to 300°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±0.1% reading +0.8°F (+0.4°C)
Temp. Coefficient: <18°C & >28°C:
    0.01% reading +0.03°C

MODEL	DESCRIPTION
C-370	Waterproof RTD Thermometer
TP-R01	Pt-100 Temperature Probe
CA-05A	Soft Carrying Case

SINGLE INPUT THERMOCOUPLE THERMOMETER

- Single input thermocouple thermometer designed for field use
- Large LCD display with backlight
- User selectable °C, °F or °Kelvin
- User selectable resolution of 0.1 or 1°F (0.1 or 1°C)
- Includes holster, TP-01 wire probe and battery
- Accepts K-type thermocouple probes (sold separately)
- Model **ST-610BDELUXE** includes:
  ST-610B Thermocouple Thermometer,
  LS-109 Surface Probe, LS-103 Air/Gas Probe,
  LS-107 General-purpose Probe and hard carrying case

Specifications

Temperature Range: -58 to 2000°F (-50 to 1300°C)
Accuracy: ±(0.5% of reading + 2°F (1°C))

MODEL	DESCRIPTION
ST-610B	Thermocouple Thermometer
ST-610BDELUXE	Thermocouple Thermometer Kit
BS-6	Tripod

4-CHANNEL THERMOCOUPLE THERMOMETER/DATA LOGGER

- Measures & displays 4 separate temperatures simultaneously
- Calculates and displays temperature differentials (T1-T2)
- Accepts Type K, J , R, S, E, T thermocouples & Pt 100Ω RTD
- Data hold and Max/Min record
- Real time SD memory card datalogger with a built-in clock and calendar
- Sampling time set from 1 second to 3600 seconds
- No extra software needed, just plug the SD card (sold seperately) into the computer and it downloads directly to Excel
- Easy to read LCD with backlight
- Auto power off or manual power off
- Model **ST-947DELUXE** includes: Thermocouple Thermometer, LS-103 Air/Gas Probe, LS-107 General purpose Probe, LS-109 Surface Probe, LS-134A Needle Tip Probe and hard carrying case

Specifications

Type K Temp. Range: -148.0 to 2372°F (-100.0 to 1300.0°C)
Type J Temp. Range: -148.0 to 2192°F (-100.0 to 1200.0°C)
Type T Temp. Range: -148.0 to 752.0°F (-100.0 to 400.0°C)
Type E Temp. Range: -148.0 to 999.9°F (-100.0 to 900.0°C)
Type R Temp. Range: 32 to 3092°F (0 to 1700°C)
Type S Temp. Range: 32 to 2732°F (0 to 1500°C)
RTD Temp. Range: -327.9 to 1562.0°F (-199.99 to 850.0°C)

MODEL	DESCRIPTION
SD-947	4-Channel Thermocouple Thermometer, Data Logger
SD-947DELUXE	Thermocouple Thermometer Kit
SD-4GB	4GB SD Memory Card
TP-01	Type K Thermocouple Wire Probe
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
BS-6	Tripod
CA-05A	Soft Carrying Case
AP-9VA-110V	AC Adapter

TYPE K THERMOCOUPLE PROBES - YELLOW

Model LS-103 Air/Gas Probe
Specially designed to measure air or gases in heating & cooling units, ovens and engine exhausts. Maximum 1472°F (800°C).

Model LS-104 Right Angle Surface Probe
Great for monitoring temperature inside pipes, flat surfaces, without keeping hands over heated area. Maximum 752°F (400°C).

Model LS-107 General Purpose Probe
Used to measure both air or liquids, but is best recommended for immersion applications. Maximum 1292°F (700°C).

Model LS-109 Surface Probe
Ribbon-style surface probe. Maximum 752°F (400°C).

Model LS-134A Needle Tip Probe
Medium gauge hypodermic needle tip, used to measure softer food stuffs, rubbers and solids. Max. 1472°F (800°C).

Model LS-139 Surface Probe
Spring loaded probe is ideal for high temperature surface measuring requirements. Not recommended for use as an immersion probe. Maximum 932°F (500°C).

Model TP-01 Type K Thermocouple Wire Probe
Model LS-181 & LS-182 Thermocouple Connector

MODEL	DESCRIPTION
LS-103	Air/Gas Probe
LS-104	Right Angle Surface Probe
LS-107	General Purpose Probe
LS-109	Surface Probe
LS-134A	Needle Tip Probe
LS-139	Surface Probe
TP-01	Type K Thermocouple Wire Probe
LS-181	Thermocouple Connector
LS-182	Thermocouple Connector

TYPE K THERMOCOUPLE PROBES - GREEN

Model R2500 Air/Gas Probe
Specially designed to measure the temperature of air or gases. Thermocouple protected by perforated stainless steel shield. Max. 1652°F (900°C).

Model R2501 Surface Probe
For flat or convex surface temperature measurements. Max. 932°F (500°C).

Model R2502 Right Angle Surface Probe
For flat or convex surface temperature measurements. Right angle design allows temperature of hard to reach areas to be taken. Max. 932°F (500°C).
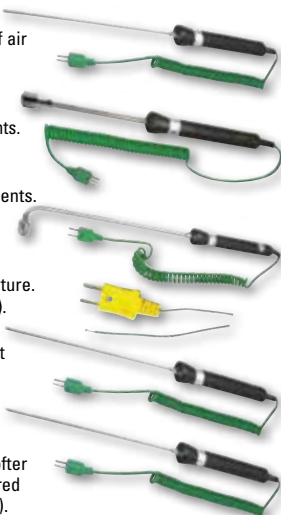
Model R2503 Beade Wire Probe
Good choice for the measurement of gas temperature. Insulated with a Teflon coating. Max. 500°F (260°C).

Model R2504 Immersion Probe
Recommended for immersion applications; excellent for checking the temperature of water, oils and non-corrosive fluids and gels. Entire probe covered with protective metal coating. Max. 1112°F (600°C).

Model R2505 Needle Tip Probe
Needle tip used to measure the temperature of softer food stuffs, rubbers and solids. Entire probe covered with protective metal coating. Max. 1112°F (600°C).

MODEL	DESCRIPTION
R2500	Air/Gas Probe
R2501	Surface Probe
R2502	Right Angle Surface Probe
R2503	Beaded Wire Probe
R2504	Immersion Probe
R2505	Needle Tip Probe

TEMPERATURE SIMULATOR

- Source 8 thermocouple types (R, S, B, E, K, J, T & N) and 7 RTD types (Cu10, Cu50, Pt10, Pt100, Pt200, Pt500 & Pt1000)
- Also provides direct setting for electrical output signals, volts and ohms
- Basic accuracy of 0.05%
- Internal cold junction compensation
- Quick reset with zero button
- 6-digit LCD readout, °C or °F selectable
- Includes set of industrial test leads, alligator clips, thermocouple adapter, protective holster, soft carrying case and battery

Specifications

Output Voltage Range: 100mV; 1000mV
Resistance Range: 400Ω, 4000Ω

MODEL	DESCRIPTION
R2800	Temperature Simulator

THERMOCOUPLE CALIBRATOR

- Operable with eight types of thermocouple including R, S, B, E, K, J, T, N, plus volts
- Measure temperature from thermocouple probes
- Simulate TC output
- Calibrate linear TC transmitters with mV source function
- Internal cold junction compensation
- Quick reset with zero button
- 6-digit LCD readout; selectable °C or °F
- Thermocouple mini-jack termination
- Includes set of industrial test leads, alligator clips, thermocouple adapter, protective holster, batteries and user manual

Specifications

Output Voltage Range: 100mV; 1V
Accuracy: 0.05% rdg. + 30µV; 0.05% rdg. + 0.3mV

MODEL	DESCRIPTION
R2810	Thermocouple Calibrator

INFRARED TEMPERATURE CALIBRATOR

- For calibrating non-contact infrared thermometers up to 932°F (500°C)
- Wide field of view to compensate for optical variations in individual infrared thermometers
- Simply set the desired temperature in increments of 0.1°, wait for the calibrator to attain equilibrium, point the infrared thermometer at the target, and measure the radiated energy
- Contact RTD reference well is located directly behind the blackbody target to assure even higher accuracies of ±0.1°C

Specifications

Temperature Range: 122.0 to 932.0°F (50.0 to 500.0°C)
Resolution: 0.1°F (0.1°C)
Accuracy: ±1.6°F (±0.8°C): 212°F (≤100°C);
    ±3.2°F (±1.6°C): 212 to 392°F
    (100 to ≤200°C);
    ±5.6°F (±2.8°C): 392 to ≤932°F
    (200 to ≤500°C)
Target Emissivity: Fixed at 0.95
Cooling Time: 45 minutes to 122°F (100°C)
Heating Time: 40 minutes to maximum
Aperture Diameter: 57mm

MODEL	DESCRIPTION
BX-500	Infrared Temperature Calibrator

GENERAL COMBO KIT

Includes the following:
- REED R5008 Autoranging Multimeter
- REED R2002 Compact Infrared Thermometer, 8:1, 932°F (500°C)
- REED R5100 AC Voltage Detector with Flashlight
- REED TL-88-1 Safety Test Leads
- REED TP-01 Type K Thermocouple Wire Probe
- REED AD-1 Temperature Input Adapter
- REED C-833R Multi-tool Carrying Case

MODEL	DESCRIPTION
ST-TEMPKIT	General Combo Kit

HVAC COMBO KIT

Includes the following:
- REED R2005 Infrared Thermometer 30:1, 2498°F (1370°C)
- REED C-380 Refrigerant Leak Detector
- REED C-383 Combustible Gas Detector
- REED R5100 AC Voltage Detector with Flashlight

MODEL	DESCRIPTION
ST-HVACKIT2	HVAC Combo Kit

REED
COMBINATION KITS
Save with our Extensive Selection of Application Specific Combo Kits

THERMO-HYGROMETER

- Large dual display shows ambient temperature and relative humidity
- User selectable °F/°C
- Data Hold and Min/Max function
- Compact and lightweight
- Includes battery

Specifications

Humidity Range: 10 to 95% RH
Temperature Range: 32 to 122°F (0 to 50°C)

MODEL	DESCRIPTION
LM-81HT	Thermo-Hygrometer
CA-52A	Soft Carrying Case

THERMO-HYGROMETER

- Dual LCD readout displays 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

Specifications

Humidity Range: 0 to 100% RH
Temperature Range: -4 to 140°F (-20 to 60°C)

MODEL	DESCRIPTION
R6001	Thermo-Hygrometer
RHA-33	33% Humidity Calibration Standard
RHA-75	75% Humidity Calibration Standard
CA-05A	Soft Carrying Case

THERMO-HYGROMETER/DATA LOGGER

- Measures relative humidity as well as temperature with a type J/type K thermocouple thermometer
- Also measures dew point and wet bulb temperatures
- Automatic temperature compensation
- Data hold and Max/Min record
- Just plug the SD card (sold seperately) into the computer and it downloads directly to Excel
- Includes Humidity/Temp. probe

Specifications

Humidity Range: 5% to 95% RH
Temperature Range: 32 to 122°F (0 to 50°C)
Dew Point Range: 13.5 to 120.1°F (-25.3 to 48.9°C)
Wet Bulb Range: -6.9 to 122.0°F (-21.6 to 50.0°C)
Type K Temp.Range: -148.0 to 2372°F (-100.0 to 1300.0°C)
Type J Temp.Range: -148.0 to 2192°F (-100.0 to 1200.0°C)

MODEL	DESCRIPTION
SD-3007	Thermo-Hygrometer/Data Logger
TP-01	Type K Thermocouple Wire Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
CA-05A	Soft Carrying Case
SW-U801-WIN	Data Acquisition Software
BS-6	Tripod
AP-9VA-110V	AC adapter

TEMPERATURE/HUMIDITY DATA LOGGER

- Stores up to 16,000 temperature and 16,000 humidity readings
- User selectable measurement rate from 2s to 24h
- Alarm displays if user-defined max/min values are exceeded
- Simply plug into your USB port to begin downloading stored information
- Includes wall mount bracket and PC compatible software

Specifications

Humidity Range: 0 to 100% RH
Temperature Range: -40 to 158°F (-40 to 70°C)

MODEL	DESCRIPTION
R6020	Temperature/Humidity Data Logger

TEMPERATURE/HUMIDITY DATA LOGGER

- Records up to 32,700 ambient temperature and relative humidity readings
- User selectable recording intervals from 1s to 24h
- Minimum/Maximum function with alarm
- Download data directly to a PC via USB cable
- Includes mounting bracket with screws, USB cable, software diskette, security lock and battery

Specifications

Humidity Range: 0 to 100% RH
Temperature Range: -40 to 158°F (-40 to 70°C)

MODEL	DESCRIPTION
R6030	Temperature/Humidity Data Logger

TEMPERATURE/HUMIDITY DATA LOGGER

- Records up to 16,000 readings
- Logs data for days, weeks or months
- Programmable sampling rate from 1 second to 2 hours
- Real-time clock stores data and time
- User-defined min/max alarm settings
- Program by RS232 serial port and Windows® compatible software (requires 8818)
- * Must order 8818 when purchasing 8829

Specifications

Humidity Range: 0 to 100% RH
Temperature Range:
   -40 to 185°F (-40 to 85°C)

8829

9801

MODEL	DESCRIPTION
8829	Temperature/Humidity Data Logger
8818	RS232 Cable & Software
9801	Printer

DIGITAL PSYCHROMETER

• Measures temperature, RH and external temperature (probe required)
• Quickly calculates wet bulb and dew point temperatures

Specifications

Humidity Range: 0 to 100% RH
Internal Temp. Range: -4 to 122°F (-20 to 50°C)
Dew Point Range: -109.7 to 122°F (-78.7 to 50°C)
Wet Bulb Range: -6.9 to 122°F (-21.6 to 50°C)

MODEL	DESCRIPTION
8706	Digital Psychrometer
87P6	External Temperature Probe
RHA-33	33% Humidity Calibration Standard
RHA-75	75% Humidity Calibration Standard

POCKET SIZE MOISTURE METER

• Measures the moisture content of sawn timber (also cardboard and paper) and hardened materials like plaster, concrete and mortar
• Impact-proof plastic housing

Specifications

Measuring Range: Wood: 6 to 44% Moisture Content;
    Hardened Material: 0.2 to 2.0% Moisture Content

MODEL	DESCRIPTION
R6013	Pocket Size Moisture Meter
R6013-P	Replacement Electrode Pin
CA-52A	Soft Carrying Case

WOOD MOISTURE METER

• Measure moisture content in wood either directly with integral moisture pins or with a remote hand-press probe
• Memory contains 8 wood groups with calibrations for approx.170 species of wood
• Includes remote hand-press moisture electrode, temperature probe, protective cap, replacement pins, batteries and carrying case

Specifications

Measuring Range: 6 to 99.9% Moisture Content

MODEL	DESCRIPTION
R6015	Wood Moisture Meter
R6015-P	Replacement Electrode Pin

PINLESS MOISTURE METER

• Detects moisture content in building materials of all kinds, as well as detects moisture distribution in walls, ceilings and floors
• Non-destructive - moisture sensor runs smoothly over the surface being tested without scratching or penetrating the surface
• Classifies moisture status as: dry, at risk or wet

Specifications

Measuring Range: 0.0 to 100.0% Moisture Content
Moisture Status Display:
    Gypsum: <30%: Dry; 30-60%: At risk; >60%: Wet
    Cement: <25%: Dry; 25-50%: At risk; >75%: Wet
    Wood: <50%: Dry; 50-80%: At risk; >80%: Wet

MODEL	DESCRIPTION
R6010	Pinless Moisture Meter
CA-05A	Soft Carrying Case

COATING THICKNESS GAUGE

- Dual technology provides automatic recognition for ferrous (F) and non-ferrous (NF) metal substrates
- Magnetic induction for ferrous metal substrates and Eddy current measurement for non-ferrous metal substrates
- User-settable high/low alarms
- Min/Max/Average
- Memory stores 400 readings
- Includes batteries, USB cable, software, calibration iron, calibration aluminum, precision standards and carrying case

Specifications

Measuring Range: 0 to 1250μm, 0 to 49.21mils

Accuracy: 0 - 850μm: ±3% +1μm, 850 - 1250μm: ±5%;
 0 - 33.46mils: ±3% +0.039mils, 33.46 - 49.21mils: ±5%

Min. Area Diameter: F: 7mm; NF: 5mm

Min. Substrate Thickness: F: 0.5mm; NF: 0.3mm

MODEL	DESCRIPTION
ST-156	Coating Thickness Gauge

COATING THICKNESS GAUGE

- Measure the thickness of non-magnetic coatings on magnetic or non-magnetic metal substrates
- Choice of remote probe; F probe measures the thickness of non-magnetic coatings on magnetic metal substrates; N probe measures the thickness of non-magnetic coatings on non-magnetic metal substrates
- Automatic probe recognition
- Automatic calibration
- Includes hard carrying case and batteries

Specifications

Measuring Range: 0 to 1000 μm, 0 to 40 mil

Accuracy: ±1 to 3% or 2 μm, whichever is greater

MODEL	DESCRIPTION
CM-8822	Coating Thickness Gauge

ULTRASONIC THICKNESS GAUGE

- Measures the thickness of steel, cast iron, aluminum, red copper, zinc, quartz glass, polyethylene, PVC, gray cast iron and nodular cast iron
- Exclusive micro-computer LSI circuit and crystal time base offer high accuracy
- Display sound velocity at the touch of a button
- Broad band receiving sensitivity means the meter can read probes of different frequencies
- Automatic material calibration
- Selectable metric or imperial
- Includes a bottle of ultrasonic couplant gel, carryingcase, and batteries

Specifications

Measuring Range: 0.05 to 7.9"/1.5 to 200mm (#45 steel)

Accuracy: ±(0.5% + 0.2"/0.1mm)

Velocity Range: 500 to 9000 m/s

MODEL	DESCRIPTION
TM-8811	Ultrasonic Thickness Gauge
TM-8811PROBE	Replacement Probe

ULTRASONIC THICKNESS GAUGE

- Able to gauge thickness measurement without requiring access to both sides of the test piece
- Capable of performing measurements on a wide range of material including metals, plastic, ceramics, composites, epoxies, glass, and other ultrasonic conductive materials
- Zero function and sound velocity calibration
- Capable of logging 5 files with up to 100 measurements for each file (total of 500 logs)
- 128 x 64 LCD with LED backlight displays metric and Imperial units of measure, user selectable
- Coupling status indicator
- Includes transducer, couplant, batteries, and carrying case

Specifications

Measuring Range: 0.65 to 400.0mm (0.03 to 15.7")
Sound Velocity Range: 1000 to 9999 m/s (0.039 to 0.394 in/µs)
Transducer Frequency: 5MHz
Minimum Area: Ø20mm × 3.0mm (Ø0.8" × 0.12")

MODEL	DESCRIPTION
R7900	Ultrasonic Thickness Gauge

HARDNESS TESTER

- Rebound hardness testing is particularly useful for large, coarse grained materials, forged parts and all types of cast materials because the spherical tip of the impact device processes the characteristics of the casting structure better
- Capable of automatically converting and displaying measurements into Rockwell (HRC, HRB, HRA), Brinell (HB), Leeb (HL), Vickers (HV) and Shore (HS) hardness values
- Operates on a rechargeable lithium battery
- Includes universal D impact device, small supporting ring, Leeb test block, nylon brush, battery charger, data processing software, communication cable and carrying case

Specifications

Hardness Scale: HL, HRC, HRB, HRA, HV, HB, HS
Meauring Range: HLD: 170 to 960; HRA: 59 to 85; HRB: 13 to 100; HRC: 20 to 68; HB: 19 to 651; HV: 80 to 967; HS: 30 to 100
Measuring Direction: 360°
Communication Port: Mini USB
Internal Memory: 48 to 350 groups of data

MODEL	DESCRIPTION
R9030	Hardness Tester

"A" SCALE DUROMETER

- Digital durometer for Shore A hardness testing
- Designed to measure the penetration hardness of rubber, elastomers and other rubber like substances such as neoprene, silicone and vinyl
- Meets DIN 53505, ASTM D2240, ISO 7619 and JISK 7215
- Measures maximum value
- Push button zero calibration

Specifications

Measuring Range: 0 to 90 HA
Deviation: ±1 HA

MODEL	DESCRIPTION
HT-6510A	"A" Scale Durometer

FORCE GAUGE/DATA LOGGER, 20KG

- Measures tension and compression
- Data Record in Peak hold or Normal mode
- Force is measured in kg, lb or Newtons
- Real time data logger with integral 2GB SD memory card (optional)
- Includes flat head, cone head, chisel head and hook adapters, 120mm extension rod and carrying case

Specifications

Measuring Capacity: 20.00 kg/44.10 lb/196.12 N

Full Scale Deflection: 0.1mm max.

Sampling Time: Normal: 1 second to 8 hours;
    Peak hold: 10 to 500 ms

MODEL	DESCRIPTION
SD-6020	Force Gauge, Data Logger, 20kg
WG-01	Wedge Grip
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

FORCE GAUGE/DATA LOGGER, 100KG

- Measures tension and compression
- Data Record in Peak hold or Normal mode
- Force is measured in kg, lb or Newtons
- Real time data logger with integral 2GB SD memory card (optional)
- Includes separate load cell sensor with 2 hooks and cable and carrying case

Specifications

Measuring Capacity: 100.0 kg / 220.5 lb / 980.6 N

Full Scale Deflection: Less than 1mm

Sampling Time: Normal: 1 second to 8 hours;
    Peak hold: 10 to 500 ms

MODEL	DESCRIPTION
SD-6100	Force Gauge/Data Logger, 100kg
WG-01	Wedge Grip
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

TEST STAND FOR FORCE GAUGE

- Optional test stand for force gauges
- Useful tool for material tension and compression analysis
- Dimensions: 650 x 250 x 230mm (25.6 x 9.8 x 9")
- Weight: 6.9kg (15.2 lb)

MODEL	DESCRIPTION
FS-1001	Test Stand for Force Gauge

NON-CONTACT PHOTO TACHOMETER

- Provides fast and accurate rpm measurements of rotating objects without contact
- Laser targeting
- Built-in memory recalls maximum, minimum values as well as last value stored
- Includes reflective tape, carrying case and batteries

Specifications

Range: 2 to 99,999 rpm
Accuracy: ±(0.05% rdg. + 1 dgt.)
Detection Distance: 50 to 500mm
Sampling Time: 0.5 sec. over 120 rpm

MODEL	DESCRIPTION
AT-6	Non-Contact Photo Tachometer
RT100	Reflective Tape

CONTACT/NON-CONTACT PHOTO TACHOMETER

- Dual function unit with both contact and non-contact capabilities
- Non-contact function utilizes laser light beam
- Removeable contact adapter for contact measurements
- Recalls Max/Min and last values
- Includes large and small cone tip, battery and carrying case

Specifications

Range: Photo: 5 to 99,999 rpm; Contact: 5 to 19,999 rpm; Surface Speed: 0.05 to 1,999 mpm
Accuracy: ±(0.05% + 1 digit)
Update Time: 1X/second

MODEL	DESCRIPTION
R7100	Contact/Non-Contact Photo Tachometer
ST-WHEEL	Replacement Measuring Wheel
ST-CONE	Replacement Cone Tip, Large
ST-FUNNEL	Replacement Funnel Tip
ST-SHAFT	Replacement Extension Shaft
RT100	Reflective Tape

CONTACT/NON-CONTACT PHOTO TACHOMETER

- Photo tachometer and contact tachometer in one precision instrument
- Surface speed measurements in fpm or mpm
- Retains Min/Max and last reading for later recall
- Laser light for improved accuracy at a greater distance in photo mode
- Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape, batteries and hard carrying case

Specifications

Range: Photo: 10 to 99,999 rpm; Contact: 0.5 to 19,999 rpm;
Surface Speed: 0.05 to 1,999.9 mpm (0.2 to 6560 fpm)
Detection Distance: 50 to 2,000mm
Sampling Rate: Photo: 1 sec. over 60 rpm; Contact: 1 sec. over 6 rpm
Laser: Class 2 red laser diode, 645nm wavelength

MODEL	DESCRIPTION
DT-1236L	Contact/Non-Contact Photo Tachometer
RT100	Reflective Tape

CONTACT/NON-CONTACT PHOTO TACHOMETER

- Automatically holds last reading for 5 minutes and recalls minimum and maximum readings
- Characters on the 5-digit display reverse direction depending on which measurement mode you are in
- Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape, batteries and hard carrying case

Specifications

Range: Photo: 5 to 99,999 tr/min; Contact: 0.5 to 20,000 tr/min; Surface Speed: 0.05 to 1,999.9 mpmin/0.2 to 6,560 fpm

Sampling Time: Photo: 1 sec. > 6 rpm; Contact: 1 sec. > 60 tr/min

Detecting Distance: 50 to 150 mm (2" to 6") typically; 300 mm (12") max.

MODEL	DESCRIPTION
K4010	Contact Non-Contact Photo Tachometer
AS-35C	Replacement Measuring Wheel
CONE	Replacement Cone Tip
RT100	Reflective Tape

STROBOSCOPE

- Digital strobocope freezes the motion and measures the speed of a rotating object, without contact
- Simply aim and synchronize the strobe's flash rate (fpm) with the speed (rpm) of the object
- Direct reading of RPMs
- Tripod mountable AC operated with 6' power cord
- Plastic injection case, plastic lens, mirror type reflector

Specifications

Flash/Speed Rate: 100 to 10,000 fpm/rpm
Sampling Time: 1X/second

MODEL	DESCRIPTION
K4020	Stroboscope, 110 VAC
K4020-230V	Stroboscope, 230 VAC
K4020-BULB	Replacement Bulb

STROBOSCOPE

- Freeze the motion and measure the speed of a rotating object, without contact
- Push button that doubles and one that divides in half the flashing and display rate with just one activation
- Duty cycles from 10 minutes to 2 hours depending on rpm range
- RS232 serial interface

Specifications

Flash Range: 10 to 10,500 rpm
Stability: 1 digit within 10 min.

MODEL	DESCRIPTION
K4030	Stroboscope, 110 VAC
K4030-230V	Stroboscope, 230 VAC
SW-U801-WIN	Data Acquisition Software
USB-01	USB Cable

VIBRATION METER/DATA LOGGER

- Measures vibration levels in machinery by measuring velocity and acceleration
- Frequency range meets ISO 2954 standards
- RMS, Peak hold, and Max/Min record
- Real time data logger with integral 4GB SD memory card (sold seperately)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes vibration sensor with cable, magnetic base, batteries and hard carrying case

Specifications

Velocity Range: 0.5 to 199.9 mm/s; 0.05 to 19.99 cm/s; 0.02 to 7.87 in/s

Acceleration Range: 0.5 to 199.9 m/s^2; 0.05 to 20.39 g; 2 to 656ft/s^2

MODEL	DESCRIPTION
SD-8205	Vibration Meter/Data Logger
SD-8205PROBE	Vibration Probe
SD-VMB	Magnetic Base
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
BS-6	Tripod
AP-9VA-110V	AC Adapter

TORQUE METER

- High resolution torque meter with separate 15kg-cm torque sensor
- Peak, Data hold, Zero, Min/Max and Fast/Slow functions
- RS232 and USB output
- Includes carrying case and batteries

Specifications

Measuring Range: 15 kg-cm; 13 in-lb; 147.1 N-cm

MODEL	DESCRIPTION
TQ-8800	Torque Meter
SW-U801-WIN	Data Acquisition Software
UPCB-01	RS232 Cable
USB-01	USB Cable
BS-6	Tripod

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COMBINATION KITS

Save with our Extensive Selection of Application Specific Combo Kits

VANE ANEMOMETER

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

Specifications

Air Velocity Range: 80 to 5910 fpm; 0.4 to 30.0 m/s; 0.9 to 67 mph;
1.4 to 108 km/h; 0.8 to 58.3 knots

MODEL	DESCRIPTION
LM-81AM	Vane Anemometer
CA-52A	Soft Carrying Case

VANE THERMO-ANEMOMETER

- Integral rotary vane sensor for one hand operation
- 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
- Includes hard carrying case and batteries

Specifications

Air Velocity Range: 80 to 6900 fpm; 0.4 to 35 m/s; 0.9 to 78 mph;
1.4 to 126 km/h; 0.8 to 68 knots
Temperature Range: 14 to 122°F (-10 to 50°C)

MODEL	DESCRIPTION
8906	Vane Thermo-Anemometer

VANE THERMO-ANEMOMETER/ DATA LOGGER

- Measures air velocity as well as temperature with a type J/type K thermocouple thermometer
- Low friction ball-bearing, rotating vane probe ensures high accuracy readings
- Air velocity is measured in m/s, fpm, km/h, mph or knots
- Temperature is measured in °C or °F
- Real time data logger with integral 4GB SD memory card (sold seperately)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes anemometer probe and hard carrying case

Specifications

Air Velocity Range: 0.4 to 30.0 m/s; 1.4 to 126.0 km/h;
0.9 to 78.3 mph; 79 to 6890 fpm; 0.8 to 68.0 knots
Type K Temp. Range: -148.0 to 2372°F (-100.0 to 1300.0°C)
Type J Temp. Range: -148.0 to 2192°F (-100.0 to 1200.0°C)

MODEL	DESCRIPTION
SD-4207	Vane Thermo-Anemometer/Data Logger
TP-01	Type K Thermocouple Wire Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
BS-6	Tripod
AP-9VA-110V	AC Adapter

HOT WIRE THERMO-ANEMOMETER/ DATA LOGGER

- Measures air velocity as well as temperature with a type J/type K thermocouple thermometer
- Hot wire probe for precise low air velocity measurements
- Air velocity is measured in m/s, fpm, km/h, mph or knots
- Temperature is measured in °C or °F
- Data hold and Max/Min record
- Real time data logger with integral 4GB SD memory card (optional)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes telescope probe and hard carrying case

Specifications

Air Velocity Range: 0.2 to 25.0 m/s; 0.7 to 72.0 km/h; 0.5 to 44.7 mph; 40 to 3940 fpm; 0.4 to 38.8 knots

Type K Temp. Range: -148.0 to 2372°F (-100.0 to 1300.0°C)

Type J Temp. Range: -148.0 to 2192°F (-100.0 to 1200.0°C)

MODEL	DESCRIPTION
SD-4214	Hot Wire Thermo-Anemometer/Data Logger
TP-01	Type K Thermocouple Wire Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
BS-6	Tripod
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

ENVIRONMENTAL METER/DATA LOGGER

- Measures relative humidity, air velocity, light levels and temperature with a type J/type K thermocouple thermometer
- Also measures sound level with optional adapter
- Air velocity is measured in m/s, ft/min, km/h, mph or knots
- Temperature is measured in °C or °F
- Light is measured in lux and Foot-candles
- Data hold and Max/Min record
- Real time data logger with integral 4GB SD memory card (sold seperately)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes multi-function probe, batteries and hard carrying case

Specifications

Air Velocity Range: 0.4 to 30.0 m/s; 1.4 to 128.0 km/h; 0.9 to 78.3 mph; 79 to 6890 fpm; 0.8 to 68.0 knots

Humidity Range: 0 to 95% RH

Light Range: 0 to 20,000 lux (0 to 1,860 Ft-cd)

Type K Temp.Range: -148.0 to 2372°F (-100.0 to 1300.0°C)

Type J Temp.Range: -148.0 to 2192°F (-100.0 to 1200.0°C)

MODEL	DESCRIPTION
SD-9300	Environmental Meter/Data Logger
SL-417	Sound Level Adapter
TP-01	Type K Thermocouple Wire Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

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ENVIRONMENTAL METER

- 4-in-1 multi-function meter... anemometer, humidity meter, light meter and type-K digital thermometer
- Velocity Units: m/s, kph, mph, knots, and fpm
- °F or °C and lux or Ft-cd selectable
- Includes battery

Specifications

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
Temperature Range: -148 to 2372°F (-100 to 1300°C)
Humidity Range: 0 to 95% RH
Light Range: 0 to 20,000 lux (0 to 2000 Ft-cd)

MODEL	DESCRIPTION
LM-8000	Environmental Meter

PITOT TUBE DIFFERENTIAL PRESSURE MANOMETER

- Measure and display air velocity, air flow volume, pressure and ambient temperature with a single, compact unit
- Air velocity displayed in m/s, fpm, km/h, mph or knots
- Air flow displayed in cfm or cmm
- Pressure displayed in psi, mbar, inH$_2$O, mmH$_2$O or Pa
- Max., Min. and Avg. readings
- Push button calculation of rectangular or circular duct areas
- Large LCD display with backlight
- Includes black and white silica tubes, Pitot tube, battery, power adapter, USB cable, CD software and carrying case

Specifications

Pressure Range: ±5000 Pa; 0.752 psi; 50.00mbar; 20.07 inH$_2$O;
    509.8 mmH$_2$O
Air Velocity Range: 1.00 to 80.00 m/s; 200 to 15,733 fpm;
    3.6 to 288.0 km/h; 2.24 to 178.66 mph; 2.0 to 154.6 knots
Air Flow Range: 0 to 99.999 ft^3/min; 0 to 99.999 m^3/min
Temperature Range: 32.0 to 122.0°F (0 to 50.0°C)

MODEL	DESCRIPTION
R3001	Pitot Tube Differential Pressure Manometer
BS-6	Tripod

DIFFERENTIAL PRESSURE MANOMETER, 0 TO 5PSI

- Measures gauge and differential pressure from 0 to 5 psi
- 11 selectable units of measure: psi, inH$_2$O, bar, mbar, kPa, inHg, mmHg, ozin^2, ftH$_2$O, cmH$_2$O, kgcm^2
- Max/Min/Avg record with time stamp
- Data Hold freezes the displayed reading
- Push button zero adjust and offset readings
- Includes USB cable, tubing, hard carrying case and battery

Specifications

Pressure Range: 5.000 psi; 138.3 inH$_2$O; 344.7 mbar;
    34.47 kPa; 1.018 inHg; 258.5 mmHg; 80.00 ozin^2;
    11.53 ftH$_2$O; 351.5 cmH$_2$O; 0.351 kgcm^2; 0.344 bar
Maximum Pressure: 20 psi

MODEL	DESCRIPTION
R3002	Differential Pressure Manometer, 0 to 5psi
BS-6	Tripod

DIFFERENTIAL PRESSURE MANOMETER, 0 TO 30PSI

- Digital display of gauge or differential pressure
- Select from one of 11 different pressure units: psi, kPa, mbar, bar, in Hg, mmHg, cmH_2O, inH_2O, ftH_2O, oz-in^2, kg/cm^2
- Data Hold freezes the displayed reading
- Max/Min Record
- Includes connection hose, battery and hard carrying case

Specifications

Pressure Range: 0 to ±30 psi
Maximum Pressure: 60 psi

MODEL	DESCRIPTION
R3030	Differential Pressure Manometer, 0 to 30psi

DIFFERENTIAL PRESSURE MANOMETER, 0 TO 100PSI

- Digital display of gauge or differential pressure
- Select from one of 11 different pressure units: psi, kPa, mbar, bar, in Hg, mmHg, cmH_2O, inH_2O, ftH_2O, oz-in^2, kg/cm^2
- Data Hold freezes the displayed reading
- Max/Min Record
- Includes connection hose, battery and hard carrying case

Specifications

Pressure Range: 0 to ±100 psi
Maximum Pressure: 150 psi

MODEL	DESCRIPTION
R3100	Differential Pressure Manometer, 0 to 100psi

MECHANICAL COMBO KIT

Includes the following:
- REED R2100 Thermal Imaging Camera, 160x120
- REED R8100 Video Inspection Camera
- REED R7100 Non-Contact Photo Tachometer
- REED R5100 AC Voltage Detector with Flashlight
- REED R2000 Digital Stem Thermometer

MODEL	DESCRIPTION
REED-MECHANICAL-KIT	Mechanical Combo Kit

LIGHT METER, 20,000 LUX

- Designed for one-hand operation and to fit easily into a tool belt or pocket
- Auto-ranging
- User selectable lux / Footcandles
- Min/Max and Data hold functions
- Auto shut off and zero adjustment button
- Includes battery

Specifications

Measuring Range: 0 to 20,000 lux; 0 to 2,000 Fc
Accuracy: ±5% of reading
Sampling Time: 1 time/second

MODEL	DESCRIPTION
LM-81LX	Light Meter, 20,000 lux
CA-52A	Soft Carrying Case

LIGHT METER, 20,000 LUX

- Digital dual filter light meter designed to measure a wide range of lighting types
- Large, 3-digit, 0.5" high, LCD display provides clear readouts even in high ambient light levels
- Data hold function
- Zero adjustment screw
- Over range and low battery indication
- Includes battery

Specifications

Measuring Range: 0 to 20,000 lux
Accuracy: ±5% of reading
Sampling Time: 2 times/second

MODEL	DESCRIPTION
YK-10LX	Light Meter, 20,000 lux
CA-52A	Soft Carrying Case

LIGHT METER, 50,000 LUX

- User selectable lux / Footcandles
- Max and Data hold function
- Auto shut off
- Compact and lightweight
- Includes carrying case and battery

Specifications

Measuring Range: 0 to 50,000 lux, 0 to 5,000 Fc
Accuracy: ±5% of reading < 10,000 lux
Sampling Time: 1.5 times/second

MODEL	DESCRIPTION
ST-1301	Light Meter, 50,000 lux

LIGHT METER/DATA LOGGER, 100,000 LUX

- Measures ambient light levels as well as temperature with a type J/type K thermocouple thermometer
- Light levels are measured in foot-candles or lux
- Temperature is measured in °C or °F
- Data hold and Max/Min record
- Plug the 4GB SD card (sold seperately) into a computer and it downloads directly to Excel
- RS232 and USB computer interface
- Includes soft carrying case and battery

Specifications

Measuring Range: 2,000, 20,000, 100,000 lux; 200, 2,000, 10,000 Ft-cd
Type K Temp. Range: -148.0 to 2372.0°F (-100.0 to 1300°C)
Type J Temp. Range: -148.0 to 2192.0°F (-100.0 to 1200°C)

MODEL	DESCRIPTION
SD-1128	Light Meter/Data Logger, 100,000 lux
TP-01	Type K Thermocouple Wire Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

SOUND LEVEL METER

- Meets IEC651 Type 2 requirements
- Dual measuring range (High/Low)
- Fast/Slow time weighting • "A & C" frequency weighting
- Data Hold, Max Hold functions and low battery indication
- 1/2" electret condenser microphone
- Tripod mount for long-term monitoring
- Includes microphone windshield ball, battery and carrying case

Specifications

Measuring Range: Low: 35 to 100 dB; High: 65 to 135 dB
Frequency Range: 31.5 Hz to 8 kHz

MODEL	DESCRIPTION
R8050	Sound Level Meter
R8090	Acoustic Calibrator
SB-01	Windshield Ball
BS-6	Tripod

SOUND LEVEL METER, BARGRAPH

- Meets IEC 61672 Type 2 requirements
- 60dB dynamic space in each range
- "A & C" frequency weighting • "Fast/Slow" time weighting
- Min/Max function • Analog bargraph display
- 1/2" electret condenser microphone
- Tripod mount for long-term monitoring
- Includes microphone windshield ball, battery and carrying case

Specifications

Measuring Range: Low: 30 to 90 dB; Med: 50 to 110 dB; High: 70 to 130 dB
Frequency Range: 20 Hz to 8 kHz

MODEL	DESCRIPTION
R8060	Sound Level Meter
R8090	Acoustic Calibrator
SB-01	Windshield Ball
BS-6	Tripod

SOUND LEVEL METER/DATA LOGGER

- Meets IEC 61672-1 Class 2 requirements
- 60dB dynamic space in each range
- Fast/Slow time weighting
- "A & C" frequency weighting
- Min/Max function
- Backlit LCD display with analog bargraph
- Records up to 64,000 datapoints (1MB)
- Real time clock and calender
- USB Interface
- Includes windscreen, USB cable, Windows software, batteries and hard carrying case

Specifications

Measuring Range: 30 to 90 dB, 50 to 110 dB, 70 to 130 dB
Accuracy: ±1.4 dB @ 94 dB
Frequency Range: 20 Hz to 8 kHz

MODEL	DESCRIPTION
R8080	Sound Level Meter/Data Logger
R8090	Acoustic Calibrator
SB-01	Windshield Ball
BS-6	Tripod

SOUND LEVEL METER/DATA LOGGER

- Complies with IEC61672 Class 2 requirements
- A/C frequency weighting
- Fast/Slow time weighting
- Peak hold, Data hold and Max/Min record
- Easy to read LCD with backlight
- Real time data logger with SD memory card (sold seperately)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes batteries

Specifications

Measuring Range: 30 to 130dB
Accuracy: 31.5Hz ± 3.5 dB, 63 Hz ± 2.5 dB, 125 Hz ± 2.0 dB, 250 Hz ± 1.9 dB, 500 Hz ± 1.9 dB, 1 kHz ± 1.4 dB, 2 kHz ± 2.6 dB, 4 kHz ± 3.6 dB, 8 kHz ± 5.6 dB
Frequency Range: 31.5 Hz to 8 kHz

MODEL	DESCRIPTION
SD-4023	Sound Level Meter/Data Logger
R8090	Sound Level Calibrator
SB-01	Wind Shield Ball
SD-4GB	2GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
CA-05A	Soft Carrying Case
BS-6	Tripod
AP-9VA-110V	AC Adapter

SOUND LEVEL CALIBRATOR

- Generates a stable acoustic signal at a controlled frequency and amplitude to verify the accuracy of your sound level meter
- Complies with IEC 942 Class 2
- Output sound pressure levels of 94dB and 114dB
- Accommodates sound meters with 1/2" diameter microphones
- Simply place calibrator on microphone, turn on and adjust your sound level meter

MODEL	DESCRIPTION
R8090	Sound Level Calibrator

HEAT STRESS WBGT METER

- Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and direct or radiant sunlight
- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement and radiant heat
- View individual temperatures or indices in either °F or °C
- User adjustable WBGT threshold with audible alarm if threshold is exceeded
- Includes batteries

Specifications

Humidity Range: 0 to 100% RH
Air Temp. Range: 32 to 122°F (0.0 to 50.0°C)
Black Globe Temp. Range: 32 to 176°F (0.0 to 80.0°C)
WBGT Temp. Range: 32 to 122°F (0.0 to 50.0°C)

MODEL	DESCRIPTION
8778	Heat Stress WBGT Meter
BS-6	Tripod
HR33	33% Humidity Calibration Standard
HR75	75% Humidity Calibration Standard

HEAT STRESS WBGT METER/ DATA LOGGER

- Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and direct or radiant sunlight
- Also measures humidity, wet bulb, dew point and air temperatures
- User adjustable WBGT threshold with audible alarm if threshold is exceeded
- No extra software needed, just plug the SD card (sold seperately) into the computer and it downloads directly to Excel
- Includes brass black globe with sensor and carrying case

Specifications

Humidity Range: 5 to 95% RH
Air Temp. Range: 32 to 122°F (0 to 50°C)
Dew Point Temp. Range: -13.5 to 120.1°F (-25.3 to 48.9°C)
Wet Bulb Temp. Range: -6.9 to 122.2°F (-21.6 to 50.0°C)
WBGT Temp. Range: Indoor: 32 to 138°F (0 to 59°C);
    Outdoor: 32 to 132°F (0 to 56°C)

MODEL	DESCRIPTION
SD-2010	Heat Stress WBGT Meter/Data Logger
SD-4GB	4GB SD Memory Card
SW-U801-WIN	Data Acquisition Software
USB-01	USB Cable
BS-6	Tripod
AP-9VA-110V	AC Adapter

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1 YEAR WARRANTY

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PORTABLE INDOOR AIR QUALITY METER

- Simultaneously monitors carbon dioxide (CO_2), relative humidity and temperature
- Instantaneous readings are displayed on a high resolution LCD with backlight
- Dew point and wet bulb temperatures can also be displayed
- Displays STEL readings (Short-Term Exposure Limit) over a 15-minute period and TWA readings (Time-Weighted Average) over a period of 8 hours
- Hold function freezes displayed reading
- Maximum, minimum and average functions
- Audible warning alarm of excessive CO_2 concentrations

Specifications

Ranges: CO_2: 0 to 5,000 ppm;
    Temperature: 14 to 140°F (-10 to 60°C);
    Humidity: 0 to 99.9% RH;
    Dew Point: -100.12 to 140°F (-73.4 to 60°C);
    Wet Bulb: 8.06 to 140°F (-13.3 to 60°C)
Alarms: Audible: 80dB
Response Time: 30 seconds

MODEL	DESCRIPTION
R9900	Portable Indoor Air Quality Meter
RHA-33	33% Humidity Calibration Standard
RHA-75	75% Humidity Calibration Standard

INDOOR AIR QUALITY METER/ DATA LOGGER

- Measures CO_2, CO, O_2, humidity and temperature
- Records readings from 3 probes simultaneously
- Audible alarm setpoint
- Data hold and Max/Min record
- Real time data logger with integral 4GB SD memory card (sold seperately)
- Just plug the SD card into the computer and it downloads directly to Excel
- Includes humidity probe, CO probe, CO_2 probe, O_2 probe, and hard carrying case

Specifications

CO_2 Sensor: Non-dispersive infrared
Range: 0 to 4,000 ppm
CO Sensor: Galvanic cell
Range: 0 to 1,000 ppm
O_2 Sensor: Galvanic cell
Range: $0 – 30\%$ O_2
Alarm Threshold: $<18.0\%$ O_2
Humidity Sensor: Precision capacitive
Range: 5 to 95% RH
Temperature Range: 32 to 122.0°F (0 to 50.0°C)
Dew Point Temp. Range: -13.5 to 120.1°F (-25.3 to 48.9°C)
Wet Bulb Temp. Range: -6.9 to 122.1°F (-21.6 to 50°C)

MODEL	DESCRIPTION
SD-9901	IAQ Meter/Data Logger
SD-4GB	4GB SD Memory Card
BS-6	Tripod
TP-01	Thermocouple Wire Probe
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

CARBON MONOXIDE METER

- Large LCD dual display shows both carbon monoxide (CO) and temperature measurements
- Stabilized electrochemical CO specific sensor and thermistor temperature sensor
- Adjustable alarm limits
- Automatic zero point adjustment
- Max, Data hold and Auto shut off
- Backlit LCD display
- Includes battery and carrying case

Specifications

CO Range: 1 to 1000 ppm
Accuracy: 5% of reading or ±5 ppm
Temperature Range: -4 to 158°F (-20 to 70°C)
Accuracy: ±0.8°C (±1.5°F)

MODEL	DESCRIPTION
R9400	Carbon Monoxide Meter

COMBUSTIBLE GAS DETECTOR

- 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 (variable tick rate) and visible indications help to pinpoint leak sources
- Adjustable sensitivity helps to eliminate background gas concentrations in contaminated environments
- Includes batteries and earphone jack for noisy environments

Specifications

Sensitivity: 50 ppm methane
Response Time: < 2 seconds
Alarm Limit: At 10% LEL for methane (can be calibrated for other concentrations or gases up to 40% LEL)
Probe Length: 16" gooseneck

MODEL	DESCRIPTION
GD-3300	Combustible Gas Detector
TGS2611-C00	Replacement Sensor Tip

COMBUSTIBLE GAS DETECTOR

- Gases sensed: gasoline, propane, natural gas or fuel oil
- Detects leaks as small as 5ppm of gasoline
- Audible and visual leak indications
- Includes reference leak source, batteries and hard carrying case

Specifications

Sensitivity: Variable, as low as 5 ppm (gasoline)
Alarm Settings: 7 LED tricolor bar indicator; variable intensity audible alarm
Probe Length: 15.5" (400mm)

MODEL	DESCRIPTION
C-383	Combustible Gas Detector
S-100B	Replacement Sensor

REFRIGERANT LEAK DETECTOR

- Detects and pinpoints even small leaks of refrigerant gases
- Detects all halogenated refrigerants
- Quickly and accurately mark any leak spot
- Audible and visual leak indications
- No user calibration required
- Includes reference leak source, batteries and carrying case

Specifications

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

Accuracy: ±5% or ±10 ppm, whichever is greater

Alarm Settings: Buzzer, Tricolor LED bar indicator

Response Time: Less than 1 second

Probe: 15" (390mm) flexible stainless probe

MODEL	DESCRIPTION
C-380	Refrigerant Leak Detector
R-134A	Replacement Sensor
LC-R01	Replacement Reference Leak Source

ULTRASONIC LEAK DETECTOR

- Locates leaks generated by pressure, vacuum, conduit, water, gas or air
- Leakage level is displayed by an LED bargraph and audible sound
- Ultrasonic Transmitter sends a 40 kHz signal which, when detected by the meter, indicates the location and magnitude of a leak (sold separately)
- Includes rubber bottle plug with plastic tubing, 1/2" PVC pipe assembly for attaching to top of detector, battery and carrying case

MODEL	DESCRIPTION
GS-5800	Ultrasonic Leak Detector
GS-400	Ultrasonic Transmitter

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MICROWAVE LEAKAGE DETECTOR

- Detect very low levels of microwave leakage
- Audible (beep) and visual (flashing red light) alarm signals
- Built-in memory recalls maximum, minimum values as well as last value stored
- Highly visible 5-digit LCD with backlight
- Includes soft carrying case and battery

Specifications

Measuring Range: 0 to 9.99 mW/cm^2
Accuracy: ±1mW/cm^2
Alarm Level: 5.0 dB

MODEL	DESCRIPTION
R9200	Microwave Leakage Detector

ELECTROMAGNETIC FIELD METER

- Detects DC and AC magnetic fields
- Measures in milliGauss (mG) or microTesla (µT)
- N pole/S pole indicator
- High precision magnetometer can even measure the absolute environment of the Earth's magnetic field as reference
- Zero adjustment button for relative measurements
- Data hold, record Max./Min. readings
- RS232/USB computer interface
- Includes probe and hard carrying case

Specifications

Measuring Range: -3000 to 3000mG, -300 to 300µT
Frequency Response: AC/DC: 40 Hz to 10 KHz
Field Direction: Uniaxial

MODEL	DESCRIPTION
GU-3001	Electromagnetic Field Meter
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
BS-6	Tripod

RADIATION METER, BLUETOOTH

- Monitors the environment to alert users to the presence of radioactive material
- Detects Alpha, Beta, Gamma, and X-radiation
- Adjustable indication of average time
- Can store 4000 groups of data internally
- Interfaces to a computer via Bluetooth
- Includes hard carrying case

Specifications

Radiation Dose Rate Range: 0.0001 - 1000µSv/h
Pulse Dose Rate Range: 0 - 4000cpm/cps
Accumulated Radiation Dose Value: 0.001µSv - 9999Sv
Accumulated Pulse Dose Rate: 0 - 9999
Average Time: Adjustable 2 to 12 seconds

MODEL	DESCRIPTION
R8008	Bluetooth Radiation Meter

STUD/METAL/AC 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 holes
- Ergonomically designed for comfort and grip
- Auto power off

Specifications

Laser Type: 650nm Class IIIA diode
Laser Accuracy: 1/2" at 20 ft.
Length of Laser LIne: up to 20 ft.

MODEL	DESCRIPTION
LA-1010	Stud/Metal/AC Voltage Detector
CA-05A	Soft Carrying Case

ULTRASONIC DISTANCE METER (52FT/16M)

- Ultrasonic distance meter measures in imperial/metric
- Laser target pointer
- Measurements taken from front or rear of unit
- Data store/recall
- Computes areas and volumes
- 5 groups of value in memory
- Sum of lengths
- Auto/manual shut-off
- LCD backlight
- Audible confirmation of reading
- Includes soft carrying case and batteries

Specifications

Measuring Range: 1.64" to 52.48' (5cm to 16m)
Accuracy: ± 1% of reading + 1 digit

MODEL	DESCRIPTION
DM-01	Ultrasonic Distance Meter (52ft/16m)

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LASER DISTANCE METER (147FT/45M)

- Easily measure hard-to-access areas, like high ceilings, with laser targeting
- Instant measurement with one-button operation
- Quick calculation of area (square footage) and volume
- Easy addition and subtraction of measurements
- Pythagoras calculation for determining distance indirectly from two or three other measurements
- Maximum/Minimum measurements
- Reference point setting function
- Metric or Imperial units of measure
- Display backlight
- Storage of last 10 measurement results
- Includes battery

Specifications

Measuring Range: -0.05 to 45m

Accuracy: ≤10m: ±2.00mm; >10m: ±2mm ±0.05 x distance in metres -10)

Laser Type: Class 2, <1mW, 620 to 690 nm

MODEL	DESCRIPTION
R8002	Laser Distance Meter (147ft/45m)

LASER DISTANCE METER (164FT/50M)

- One-person distance measuring and estimating tool that measures difficult to reach places
- Laser target pointer
- Auto horizontal distance
- Indirect measurement using Pythagoras
- Angle, slope and pitch measured by placing body of meter on the slope itself or aligning it at the desired angle
- Area and volume calculations
- Addition/subtraction functions
- Min/max distance tracking
- Store/recall up to 20 measurements
- Multi-line display with illumination
- Buzzer indication of reading
- IP54 (Dust and splash-proof)
- Includes battery

Specifications

Measuring Range: 5cm to 50m (2" to 164')

Accuracy: ±1.5 mm (±0.06")

Laser: Class 2, 635nm, <1mW

MODEL	DESCRIPTION
R8001	Laser Distance Meter (164ft/50m)

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VIDEO INSPECTION CAMERA

- High definition inspection scope detects and diagnoses problems without direct physical or visual access
- 17mm imager head with 1m flexible gooseneck retains configured shape and is waterproof
- Gooseneck is expandable up to 30' with optional cable extensions
- Four high visibility LED lights provide illumination in dark locations with brightness control
- Includes magnet, hook, mirror attachments and batteries

Specifications

TFT LCD Size: 2.4"
Display Resolution: 480 x 234
Viewing Distance: 5.9 to 9.8" (15 to 25cm)
Viewing Angle: 0 to 180°
Max. Resolution: 640 x 480
Depth of Field (DOF): 10mm to infinity
Camera Diameter: 0.66" (17mm); Length: 39" (1m)

MODEL	DESCRIPTION
R8100	Video Inspection Camera
BS-C6	6' Cable Extension
BS-15-9C3	9mm Replacement Camera Head w/ 3' Cable

VIDEO INSPECTION CAMERA

- Comfortable pistol grip design and forward facing controls make it easy to detect and diagnose the unreachable
- High visibility 3.2" color TFT LCD monitor with 320x240 pixel resolution
- Camera and video functions allows you to save high resolution JPG images and live video
- TV compatible
- Rechargeable lithium-ion battery
- Transfer files to a computer via USB cable and optional 2GB SD memory card
- Includes video borescope, imager head, magnet, hook and mirror attachments, 3.7V lithium battery, DC power supply, USB cable, video output cable and hard carrying case

Specifications

Viewing Distance: 5.9 to 9.8" (15 to 25cm)
Viewing Angle: 0 to 180°
LCD Monitor: 640 x 480 pixels, 320 x 240 pixels max. resolution
Camera Diameter: 0.66" (17mm); Length: 39" (1m)
Dimensions: 9.5 x 3.9 x 6.3" (240 x 100x 160mm)

MODEL	DESCRIPTION
BS-150	Video Inspection Camera
SD-4GB	4GB SD Memory Card
BS-C6	6' Cable Extension
BS-15-9C3	9mm Replacement Camera Head w/ 3' Cable
BS-150/BATTERY	Replacement Battery

HD VIDEO PIPE INSPECTION SYSTEM

- Cost effective portable inspection camera designed to deliver quality video inspection in a wide range of applications including: sewers, building ducts/piping, wells, and power plants
- System includes camera head, cable reel, battery pack and DVR
- High resolution CCD chip is designed to capture bright, crisp, color video of the inspection area
- 7" TFT LCD display presents a live crisp color image at your fingertips
- Cable reel is mounted and rotatable in the case
- Camera head contains 12 white LED lights, a flexible spring coiled joint to navigate corners, a scratch-resistant sapphire lens cover and a stainless steel housing that allows the camera to withstand various hits
- Sun visor is included to act as a sun shield for outdoor inspections
- Includes camera head, cable reel and push cable, re-mote control, toolbox with DVR, battery pack and cable, car charger, fuse (x2), ball guide (x2), plastic skid, screw (x2), nut (x2) and waterproof ring, adapters, screwdriver

Specifications

Camera
Focus Distance: 20cm (approx)
Depth-of-View: 100cm (approx)
Lighting: Built-in12 white LED
Waterproof: 20m water
  (camera fixed on cable)

Cable Wheel
Cable Length: 20m

DVR
Screen: 7" 16:9 high-definition
  color LCD
Resolution: 800 x 480 RGB
External Memory:
  Supports SD memory
  card up to 32GB

Battery Pack
Running Time: 7 hour (Record),
  9 hour (Play Back)

MODEL	DESCRIPTION
R9000	HD Video Pipe Inspection System
R9000-RCH	Replacement Camera Head

PH METER

- Dual displays of temperature and pH
- One touch calibration for up to 3 points
- Replaceable pH electrode module
- Data hold • IP65 rated (waterproof)
- Protective sensor cap keeps sensor moistened
- Includes batteries

Specifications

pH Range: 0.00 to 14.00 pH
Temperature Range: 0 to 32 to 140°F (60.0°C)

MODEL	DESCRIPTION
8689	Digital pH Pen
86P8	Replacement pH Electrode
PH-04	4.0 pH Buffer Solution
PH-07	7.0 pH Buffer Solution

PH/ORP METER/DATA LOGGER

- Measures pH and ORP levels in water
- Auto 3-point calibration for pH 4.0, pH 7.0 and pH 10.0
- Plug the SD card (sold seperately) to download directly to Excel
- Model SD-230-KIT2 Kit, includes: SD-230 pH/ORP Meter/ Data Logger, ORP-14 ORP Electrode & PE-11 pH Electrode

Specifications

pH Range: 0 to 14.00 pH
mV Range: -1999 to 1999 mV

MODEL	DESCRIPTION
SD-230	pH/ORP Meter/Data Logger
SD-230-KIT2	pH/ORP Meter Kit
PE-01	pH Electrode, 9.5mm dia. x 130mm
PE-03	pH Electrode, 12.3mm dia. x 160mm
PE-11	pH Electrode, 10mm dia. x 130mm
ORP-14	ORP Electrode
PH-04	4.0 pH Buffer Solution
PH-07	7.0 pH Buffer Solution
TP-07	ATC Temperature Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

CONDUCTIVITY/TDS/SALINITY METER/DATA LOGGER

- Measures conductivity, total dissolved solids (TDS) and salt levels in water
- Plug the SD card (sold seperately) to download directly to Excel
- RS232 and USB computer interface
- Includes probe and hard carrying case

Specifications

Conductivity Range: 200µS, 2mS, 20mS, 200mS
TDS Range: 200, 2000, 20,000, 200,000 ppm
Salinity Range: 0 to 12% salt (% weight)

MODEL	DESCRIPTION
SD-4307	Conductivity/TDS/Salinity Meter/Data Logger
SD-4GB	4GB SD Memory Card
TP-01	Thermocouple Wire Probe
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter

SALINITY REFRACTOMETER

• Salinity refractometers are useful for measuring the concentration of natural or artificial seawater in aquariums, holding tanks, and breeding ponds
• They can also be used for controlling the saltwater concentration when preparing pickles, measuring the concentration of saltwater used in rinsing and cooking sea products

Specifications

Range: 0 to 28%
Resolution: 0.2%
Accuracy: ±0.2%

MODEL	DESCRIPTION
R9600	Salinity Refractometer
RPDPA1	Lens Cover

BRIX REFRACTOMETER

• A Brix Refractometer shows the concentration percentage of the soluble solids content (total solids) of a sample (water solution)
• Brix% is calibrated to the number of grams of cane sugar contained in 100g of cane sugar solution (When measuring a sugar solution, the Brix% should perfectly match the actual concentration)
• The soluble solids content is the total of all the solids dissolved in the water - beginning with sugar, salts, protein, acids, etc. and the measurement reading value

Specifications

Range: 0 to 32%
Resolution: 0.2%
Accuracy: ±0.2%

MODEL	DESCRIPTION
R9500	BRIX Refractometer
RPDPA1	Lens Cover

BATTERY COOLANT REFRACTOMETER

• It is essential to know the concentration and freezing point of anti-freeze coolants for vehicular safety
• This tester monitors the freezing point of both Ethylene Glycol and Propylene Glycol
• In addition, it indicates battery recharge level
• This tester is simple to use; requiring only a few drops to provide accurate readings within seconds

Specifications

Propylene Glycol
Range: -50 to 32°F (-45.5 to 0°C)
Res'n: -12.2°C (10°F)
Ethylene Glycol
Range: -50 to 32°F (-45.5 to 0°C)
Res'n: 10°F (-12.2°C)

MODEL	DESCRIPTION
R9700	Battery Coolant Refractometer
RPDPA1	Lens Cover

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CALIPER & MICROMETER

• 6-digit LCD display
• mm/inch select and zero button

Model DC-515 Caliper
Range: 0 to 6" x 0.0005"/
Resolution: 0 to 150mm x 0.01mm
Dimensions: 235 x 75 x 15mm
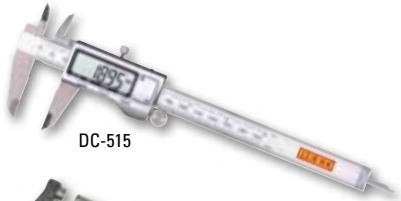
DC-515

Model DC-516 Micrometer
Range: 1" x 0.00005"
Resolution: 25mm x 0.001mm
Dimensions: 156 x 56 x 22mm

DC-516

MODEL	DESCRIPTION
DC-515	Digital Caliper
DC-516	Digital Micrometer

DIGITAL STOP WATCH

• High contrast digital display
• Records real time and split times
• 1/100th second resolution
• Displays hour, minute, second, and day of the week
• Alarm and snooze functions
• Shock and water resistant case
• Includes neck lanyard and battery

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SW600

MODEL	DESCRIPTION
SW600	Digital Stop Watch

HEAT STRESS STOP WATCH

• Measures temperature and humidity, and calculates heat index as well as dew point
• Combines air temperature and relative humidity measurements in an attempt to determine the human-perceived equivalent temperature or "how hot it feels"
• Calendar mode displays day, date and time
• Stopwatch/chronograph mode with 1/100 second resolution
• Fastest/Slowest/Average Lap recall
• 99 lap counter with 30 lap/split memory
• 10 hour countdown timer with audible beeper warning for the last 5 seconds
• 12 or 24 hour clock operation
• Full LCD display with LED backlight
• Silent operation option
• Dual power: solar panel and battery
• 1 ATM water resistant (IPX4 rated)

Specifications

Timing Capacity: 9 hrs, 59 mins, and 59 secs
Accuracy: ±3 seconds per day
Heat Index Range: 70 to 122°F (22 to 50°C)
Temperature Range: 23 to 122°F (-5 to 50°C)
Humidity Range: 1 to 99% RH

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SW700

MODEL	DESCRIPTION
SW700	Heat Stress Stop Watch

DIGITAL SCALE

- LCD display with automatic backlight
- Platform size: 195mm x 150mm x 40mm
- Cabinet size: 150mm x 145mm x 48mm

Model GM-600G
- 600g capacity x 1g resolution
- Measures in grams, ounces and parts counting

GM-600G

Model GM-3KG
- 3000g capacity x 1g resolution
- Measures in grams, pounds and parts counting
- Self calibration with memory

GM-3KG

MODEL	DESCRIPTION	
GM-600G	Digital Scale, 600g	
GM-3KG	Digital Scale, 3000g	
AP-9VA-110V	AC Adapter	

ELECTRONIC SCALE, 5000G

- 5000g measuring capacity with 1g resolution
- Dual range, gram or ounces, selected by internal slide switch
- Single push button control on front panel
- Battery or 9VDC adapter power supply
- Stainless steel platform
- RS232 serial interface

MODEL	DESCRIPTION
GM5000	Electronic Scale, 5000g
AP-9VA-110V	AC Adapter

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CARRYING CASES

CA-52A

C-820

CA-05A

MC-2

CA-833R

R8888

R9999

MODEL	DESCRIPTION
CA-52A	Soft Carrying Case, 7"L x 3"W x 2"D
C-820	Soft Carrying Case, 8"L x 5"W x 2"D
CA-05A	Soft Carrying Case, 9"L x 4"W x 2"D
C-833R	Multi-tool Carrying Case, 11"L x 9"W x 2"D
MC-2	Attache-style Carrying Case, 17"L x 14"W x 5"D
R8888	Deluxe Carrying Case, 13"L x 12"W x 5.8"D
R9999	Industrial Tool Bag, 15.8"L x 7.8"W x 11.8"D

ACCESSORIES

SD-4GB

SD-MINI

BS-6

MODEL	DESCRIPTION
SD-4GB	4GB SD Memory Card
SD-MINI(8GB)	8GB Micro SD Memory Card
BS-6	Tripod

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INSTRUMENTS
NEW PRODUCTS

Check out some of the latest additions to our extensive line of test & measurement instruments.

R5500 CIRCUIT BREAKER FINDER

See page 15

R2007 DUAL LASER INFRARED THERMOMETER

See page 17

R7900 ULTRASONIC THICKNESS GAUGE

See page 32

R2800 TEMPERATURE SIMULATOR

See page 26

R2810 THERMOCOUPLE CALIBRATOR

See page 26

REFERENCE GUIDE

ELECTRICAL

Electrical Safety Standards - To ensure the safe operation of electrical instruments, the IEC61010 has established safety standards for electrical environments. There are four categories, which are always stated with the designated voltage, for example "CAT III, 150 V" or "CAT IV, 1000 V".

CAT I - Applicable to instruments and equipment, which are not intended to be connected to the mains supply. Examples: low voltage electronic circuits, load circuits of bench power supplies, etc.

CAT II - Defines circuits which are intended for direct connection into mains sockets or similar points. Example: a device connected to a 120 V mains socket.

CAT III - For circuits which can be connected to the mains installation of a building. Example: 120/240 V distribution boards, busbars, or equipment permanently connected to the 3-phase power supply (e.g. electric motors).

CAT IV - Includes circuits which are connected directly to the source of power for a given building. There are very high levels of available energy and arc flash can occur. Example: measurements on a cable connecting the power transformer and a building (i.e. before the circuit breakers in the building).

True Root Mean Square (TRMS) - When measuring the value of an alternating current signal it is often necessary to convert the signal into a direct current signal of equivalent value (known as the root mean square, RMS value). This process can be quite complex and most low-cost instrumentation and signal converters carry out this conversion by filtering the signal into an average rectified value and applying a correction factor.

Volt - The unit by which an electromotive force or voltage is measured. The volt is a measure of electric potential. Electrical potential is a type of potential energy, and refers to the energy that could be released if electric current is allowed to flow.

Ampere (Amp) - Amperage or Amps provided by an electrical service is the flow rate of "electrical current" that is available.

Ohm - The unit of measurement for resistance. One ohm is that resistance that limits the current to one ampere when a potential of one volt exist across its terminals.

Watt - The unit of measurement for power. One watt equals to the work done when one joule is used per second.

Capacitance - The ability of two conductors separated by an insulator to store an electrical charge.

TEMPERATURE, HUMIDITY AND MOISTURE

Distance to Spot - The field of view of an infrared thermometer is similar to that of a flashlight, the further the object is from the flashlight, the bigger the diameter of the beam. The further you are from your target, the larger the area of measurement spot. Optical resolution is defined by the ratio between the distance from the object being measured to the size of the object being measured (D:S). The greater the D:S ratio, the higher the optical resolution. A thermometer with a higher resolution allows you to measure smaller objects from greater distances.

Emissivity - Term used to express the effectiveness of a given material in emitting energy as thermal radiation.

Relative Humidity - Relative humidity is the amount of moisture in the air compared to what the air can "hold" at that temperature. When the air can't "hold" all the moisture, then it condenses as dew.

Dry-Bulb Temperature (DBT) - The dry-bulb temperature is the temperature of air measured by a thermometer freely exposed to the air but shielded from radiation and moisture. DBT is the temperature that is usually thought of as air temperature.

Wet-Bulb Temperature (WBT) - The wet-bulb temperature is the temperature a parcel of air would have if it were cooled to saturation (100% relative humidity) by the evaporation of water into it.

Thermocouples (T/C) - A temperature-measuring device consisting of two dissimilar conductors that contact each other at one or more spots, where a temperature differential is experienced by the different conductors (or semiconductors). It produces a voltage when the temperature of one of the spots differs from the reference temperature at other parts of the circuit.

Heat index (HI) - An index that combines air temperature and relative humidity in an attempt to determine the human-perceived equivalent temperature—how hot it feels.

WBGT - The wet-bulb globe temperature (WBGT) is a composite temperature used to estimate the effect of temperature, humidity, wind speed (wind chill), and visible and infrared radiation (usually sunlight) on humans.

REFERENCE GUIDE

Data Logger - An electronic device that is capable of recording data over time or in relation to location either built in to the instrument or sensor or via external instruments and sensors.

Moisture Content - Moisture content is the quantity of water contained in a material.

INDUSTRIAL

Stroboscope - Also known as a strobe, it is used to make a cyclically moving object appear to be slow-moving, or stationary. It consists of either a rotating disk with slots or holes or a lamp such as a flashtube which produces brief repetitive flashes of light. When a rotating or vibrating object is observed with the stroboscope at its vibration frequency (or a submultiple of it), it appears stationary.

Tachometer - An instrument measuring the rotation speed of a shaft or disk, as in a motor or other machine. The device usually displays the revolutions per minute (RPM).

Durometer - One of several measures of the hardness of a material. Hardness may be defined as a material's resistance to permanent indentation.

Refractometer - A refractometer is a laboratory or field device for the measurement of an index of refraction (refractometry).

Anemometer - An anemometer or windmeter is a device used for measuring wind speed.

Lux (LX) - The unit of illuminance and luminous emittance, measuring luminous flux per unit area. It is equal to one lumen per square metre.

Foot-candle (FC) - A unit of measure of the intensity of light falling on a surface equal to 1 lumen per square foot.

GAS

Carbon Monoxide (CO) - is a colorless, odorless, and tasteless gas that is slightly less dense than air. It is toxic to humans when encountered in concentrations above about 35 ppm.

Indoor Air Quality (IAQ) - is a term which refers to the air quality within and around buildings and structures, especially as it relates to the health and comfort of building occupants. IAQ can be affected by gases (including carbon monoxide), microbial contaminants (mold, bacteria), or any mass or energy stressor that can induce adverse health conditions.

Lower explosive limit (LEL) - The lowest concentration (percentage) of a gas or a vapor in air capable of producing a flash of fire in presence of an ignition source (arc, flame, heat).

Parts per million (PPM) - Just as per cent means out of a hundred, so parts per million or ppm means out of a million. Usually describes the concentration of something in water or soil.

WATER QUALITY

pH - Is the negative log of the activity of the hydrogen ion in an aqueous solution. Solutions with a pH less than 7 are said to be acidic and solutions with a pH greater than 7 are basic or alkaline. Pure water has a pH of 7.

Oxygen Reduction Potential (ORP) - ORP stands for oxidation-reduction potential, which is a measure, in millivolts, of the tendency of a chemical substance to oxidize or reduce another chemical sub- stance. OXIDATION.

Oxidation - Oxidation is the loss of electrons or an increase in oxidation state by a molecule, atom, or ion.

Reduction - Reduction is the gain of electrons or a decrease in oxidation state by a molecule, atom, or ion.

Total Dissolved Solids (TDS) - Total Dissolved Solids is directly related to the purity of water. It is the measurement for the combined content of all inorganic and organic substances in a given volume of water, expressed in units of mg per unit volume of water (mg/L) or parts per million (ppm).

Dissolved Oxygen (DO) - Dissolved oxygen refers to the level of free, non-compound oxygen present in water or other liquids.

Salinity - Salinity is the saltiness or dissolved salt content of a body of water.

Automatic Temperature Compensation (ATC) - Automatic correction for the influence of temperature at the measurement source.

CATEGORY INDEX

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PRODUCT INDEX

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PRECISION
TEST & MEASUREMENT
INSTRUMENTS

Electrical

Temperature

Safety

Humidity

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Inspection

Industrial Maintenance

Water Quality

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