



Extech offers a complete selection of Thermometers and temperature probes for more advanced temperature measurement requirements. Features include multiple thermocouple inputs, datalogging for analysis, PC interface for capturing data plus printing capabilities.

Featuring Models with:

Wide Ranges

From -346° to 2500°F

Dual Input

Provides differential temperature measurements for servicing refrigeration and air conditioning

Datalogging

Time stamped measurements for monitoring, analyzing and report generation

PC Interface

To view and record trends in temperature measurements

Printing

For field testing applications that require a hard copy

<< EA15 EasyView™ Temperature Datalogger

features dual inputs, internal memory to store data, and an RS-232 interface and software to transfer the data to a PC for evaluation, while accepting up to seven different thermocouple types enables this meter to meet your application needs.



Bead Wire probes



General Purpose probes



Penetration probes



Surface probe

Accessories: Temperature Probes with 39" (1m) cable

(See page 52 for a Special Offer on Temperature Probes)

Bead Wire

872501	Type K Bead Wire Temperature Probe (392°F/200°C)	\$13
872502	Type J Bead Wire Temperature Probe (392°F/200°C)	\$13

General Purpose

871515	Type K, 4" (100mm) General Purpose Probe (1562°F/850°C)	\$35
881605	Type K, 6" (150mm) General Purpose Probe (1652°F/900°C)	\$40
801515	Type J, 4" (100mm) General Purpose Probe (1562°F/850°C)	\$35

Immersion

881603	Type K, 6" (150mm) Immersion Probe (1652°F/900°C)	\$40
881604	Type K, 6" (150mm) Needle thin Probe (1652°F/900°C)	\$40

Surface

881602	Type K, 6" (150mm) Surface Probe (932°F/500°C)	\$55
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Adaptors, Cases and Paper

149114	117V AC Adaptor (for 422324)	\$35
149220	220V AC Adaptor (for 422324)	\$35
409996	Soft Vinyl Pouch Carrying Case (for EA15)	\$15
409997	Large Soft Vinyl Pouch Carrying Case (for 421508)	\$19
422377	Thermal Paper Roll, 2pk, 1.5" (38mm) width (for 422324)	\$8

NIST Certificate (Where Available) \$65

For an additional charge, Extech will supply your meter complete with a Certificate of Calibration Traceable to N.I.S.T.

To order meter with NIST, add "NIST" to the meter part number and add \$65 to the cost of your meter.

(i.e. EA15-NIST \$294),
*NIST not available for 422324

Specifications

Model

Display Counts:

Dual Input:

Type J °F (°C):

Type K °F (°C):

Basic Accuracy:

Max. Resolution:

Dimensions/Weight:

CE:

Warranty:

Price:



7 Thermocouple Thermometer, Dual Input with Alarm and PC Interface

Dual input, Programmable HI/LO audible alarms plus PC Interface & software

- Seven Thermocouple type selections: K, J, T, E, R, S, and N
- Large EL backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, plus Elapsed Time
- Min/Max/Avg readings
- Data Hold and Relative functions
- Built-in RS-232 bi-directional PC interface (includes software)
- Auto power off with disable feature
- Complete with 2 Type K bead wire temperature probes, Windows® 95/98 compatible software, RS-232 cable, protective holster, and 9V battery



7 Thermocouple Datalogging Thermometer, Dual Input with PC Interface

Internal memory stores up to 8800 data sets

- Seven Thermocouple type selections: K, J, T, E, R, S, and N
- Compact and rugged design features large backlit display
- Built-in datalogger to store 8800 measurements
- Each record stores Time, T1 and T2
- Manual push-button datalogging or automatic with programmable sample rate of 3 to 355 seconds per reading
- Manual record/recall of data
- Transfer recorded data to a PC for analysis via RS-232 interface
- Data Hold and Auto power off
- Min/Max/Avg or Min/Max with elapsed time
- Complete with two Type K temperature probes, Windows® 95/98/NT/2000/ME/XP compatible software, RS-232 cable, protective holster, case, and 6 AAA batteries



4 Thermocouple Thermometer Printer, Dual Input with Alarm

Ideal for field testing providing a hard copy data

- Four Thermocouple type selections: K, J, T, and E
- Scan mode sequentially displays T1, T2, or (T1-T2) and simultaneously prints all 3 readings
- Max/Min/Avg readings
- Hi/Lo alarm settings
- Digital signal output alarm jack for control and industrial automation
- Programmable time intervals with real time clock (hours, minutes, and seconds) and calendar
- Complete with carrying case, six 1.5V AAA batteries, 2 rolls thermal paper, and mini DIN alarm output cable

3 Thermocouple Thermometers

421508

99,999 count Backlit LCD

Yes

-346 to 1922°F (-210 to 1050°C)

-328 to 2501°F (-200 to 1372°C)

±0.05% rdg

0.1°

7.6x3.6x2.1" (192x91x53mm)/13oz (365g)

Yes

1 year

\$159

EA15

20,000 count Backlit LCD

Yes

-200 to 1994°F (-150 to 1090°C)

-200 to 1999.9°F (-150 to 1370°C)

±0.05% rdg

0.1°

5.91x2.83x1.38" (150x72x35mm)/8.3oz (235g)

Yes

1 year

\$229

422324*

9999 count LCD

Yes

-328 to 1400°F (-200 to 760°C)

-328 to 2431°F (-200 to 1333°C)

±0.05% rdg

0.1°

7.6x3x1.5" (193x74x37mm)/12.9oz (365g)

Yes

1 year

\$549

42270
42275
From
\$89

Temperature and Humidity Datalogger with PC Interface

Compact, powerful and easy to use - records up to 16,000 readings

Features:

- Records Relative Humidity and Temperature in storage containers, shipping vans, freezers and more
- Logs data for days, weeks or months — up to 1 year battery life
- Multiple Dataloggers can be programmed and data downloaded from one single docking station.
- Programmable sampling rate from 1 second to 2 hours
- Program the logger, analyze and store data using Windows® 95/98/2000/NT/ME/XP compatible software
- View both humidity and temperature on LCD display
- LED flashes when unit is sampling
- Three start methods: Scheduled, immediate or magnetic
- Real time clock stores date & time with data
- Programmable HI/LO limits with alarm indication
- Wide operating range:
Humidity: 0 to 100% RH
Temperature: -40 to 185°F (-40 to 85°C)
- Dimensions/Weight:
42270 — 3x2.3x0.88" (76.2x57.2x22.3mm)
2.6oz (72.6g)
42275 — 4.9x3.8x2" (123.8x95.3x51mm)
9oz (254g)
- CE approved, one year warranty



42275 Datalogger Kit
Kit includes Datalogger, docking station, RS-232 cable, Windows® 95/98/2000/NT/ME/XP compatible software and 3.6V lithium battery



Datalogger Kit Model 42275 includes Windows® compatible software and docking station



NOTE: 42270 Datalogger by itself cannot function without software and docking station.

Ordering

42270.....	Temperature/Humidity Datalogger	\$89
42275.....	Temperature/Humidity Datalogger Kit with PC Interface.....	\$149

42276

\$389

Datalogger Programmer with Printer

Ability to download, print or graph the logged data anytime, anywhere

Features:

- Self standing battery operated programming unit and printer — eliminates the need for a PC
- Programming is performed through the 5 button control panel and integral LCD display
- Print numerical data or graphs on thermal paper
- Portable size is packaged in an ABS plastic case
- CE approved, one year warranty
- Dimensions: 6.1x4.8x1.9" (155x122x48mm) Weight: 12oz (338g)
- System includes one 42270 Datalogger with 3.6V lithium battery, programmer with 4 AAA batteries and roll of paper. Order additional 42270 dataloggers separately. Optional AC Adaptor.



Print numerical data or graphs

Ordering

42276.....	Datalogger Programmer with Printer.....	\$389
42270.....	Temperature/Humidity Datalogger	\$89
159117.....	117V AC Adaptor	\$29
159222.....	220V AC Adaptor	\$29
422378.....	Replacement Thermal Paper (5pk).....	\$12



403265
\$159

High Temperature InfraRed ProbeMeter™

Pocket size InfraRed Thermometer measures up to 1022°F (550°C) with laser pointer and audible alarm

- Built-in laser pointer improves aim and accuracy
- Backlit display to measure in dimly lit areas
- Adjustable Hi/Lo setpoints with alarm alerts user when temperature exceeds the programmed setpoints
- Automatic Data Hold
- Adjustable emissivity
- Auto power off
- Complete with carrying case and 4 AAA batteries



42525
\$169

InfraRed Thermometer with Type K input

Non-contact InfraRed Temperature readings with laser pointer plus Type K surface measurements

- Built-in laser pointer improves aim and accuracy
- % enables user to display Relative temperature measurements
- Manual offset adjustment to improve accuracy
- Type K thermocouple input enables contact measurements for IR surface emissivity verification
- Adjustable emissivity
- Data Hold, Min/Max readings
- Complete with 9V battery



42580
\$299

NEW!

Available Q3 2003



Optional software

Datalogging/Printing IR Thermometer

Measure, record, print and download non-contact measurements to a PC

- Enables user to scan multiple temperature points of an object or process
- Manually log temperatures or setup time interval for automatic logging
- Datalogger date/time stamps and stores data for later recall, printing or downloading to a PC
- Program up to 4 user defined locations and record up to 99 readings per location
- Built-in thermal printer prints temperature data with date and time stamp
- Backlit display and Auto Power off
- Adjustable emissivity
- RS-232 PC interface, optional PC Windows® compatible software
- Laser pointer to improve measurement aim
- Complete with 4 AA batteries and one paper roll 1.5" (38mm) x 1.18" (30mm)D; Optional AC adaptor

3
InfraRed
Thermometers

403265	42525	42580
2000 count Backlit LCD	9999 count LCD	1999 count Backlit LCD
-4 to 1022°F -20 to 550°C	14 to 662°F (InfraRed); -50 to 1999°F (Type K) -10 to 350°C (InfraRed); -10 to 1230°C (Type K)	-40 to 932°F (-40 to 500°C)
±2% of reading or ±6 F/±3°C (whichever is greater)	InfraRed ±(3% rdg) or ±6 F/±3°C (whichever is greater) Type K ±(1%rdg+2°F/1°C)	±2% of reading or ±2°F/°C (whichever is greater)
1°F/°C	0.1°F/°C	0.1°F/°C (<100°); 1°F/°C
0.1 to 1.00 Adjustable	0.1 to 0.95 Adjustable	0.3 to 1.0 Adjustable
10:1	6:1	8:1
—	—	1.5" (38mm) Thermo-Printer
6.7x1.7x1.6" (170x44x40mm)	7.7x4.7x2.3" (195x120x58mm)	Yes
6.4oz (200g)	9.6oz (265g)	8.2x2.8x2.1" (208x70x53mm)
Yes	Yes	9.2oz (260g)
1 year	1 year	Yes
\$159	\$169	1 year
		\$299



446580
\$299

Hygro-Thermometer Datalogger

Built-in sensor and internal memory stores 7000 readings with PC interface

- Datalogging function stores up to 7000 readings with single manual or a programmable sample rate of 1 to 65 seconds per sample
- RS-232 Windows® 95/98/NT/2000/XP/ME compatible software downloads data for display, analysis or report generation
- Date and time stored with data
- Data Hold
- Complete with Windows® 95/98/NT/2000/XP/ME compatible software and cable, carrying case and 9V battery



445365
\$549

Printing Hygro-Thermometer

Displays RH and Dew Point plus Programmable printing intervals

- Triple LCD display indicates %RH or Dew Point, air temperature (T1) and remote type K temperature (T2)
- Print %RH and Temperature at programmable time intervals
- Temperature input accepts any Type K thermocouple probe with mini connector
- Quiet, 16 character per line, built-in thermal printer
- Data Hold and Max/Min
- Optional AC adaptor
- Complete with Humidity sensor with 39" (1m) cable, Type K bead wire probe, carrying case, 2 rolls thermal paper and 6 AAA batteries



407777
\$299

Heavy Duty Moisture Meter

Fast, accurate, wood moisture measurements with built-in self-calibration

- Displays wood moisture content
- Memory contains 9 material groups including calibrations for approx. 150 species of wood
- Built-in self calibration with MTC adjustment
- Super large 1.4" (36mm) LCD
- Record/Recall MIN/MAX
- Data Hold plus Auto power off
- Built-in RS-232 PC interface with optional Data Acquisition software and Datalogger (see page 75 for full details)
- Complete with 2 pin moisture probe, 3.9ft (120cm) cable, 10 spare pins, holster and 9V battery. Optional AC Adaptor 156119 and 156221—see ordering page 72.

Extech in-house NIST Calibration Services



Extech provides in-house Certificates of Traceability to NIST for most of its Temperature, Humidity, and Airflow meters. Multiple data points are supplied with each NIST Certificate at a reasonable cost and fast turnaround time.

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Humidity Meters

Specifications

446580	445365*	407777	Model
2000 count LCD	9999 count LCD	2000 count LCD	Display Counts
Capacitance	Capacitance	Insulated Contact Pins	Sensor Type
10 to 95%	10 to 95%	—	Humidity
—	—	9% to 30%	Moisture
-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	32 to 122°F (0 to 50°C)	Temperature °F (°C)
±3%, ±1.5°F (±0.8°C)	±3%, ±1.5°F (±0.8°C)	±(4%+5d @ 9 to 24%), ±1.5°F (±0.8°C)	Basic Accuracy
0.1%, 0.1°	0.1%, 0.1°	0.1%, 0.1°	Max. Resolution
Dewpoint via software	Dewpoint	—	Dewpoint/Wet Bulb
Included	—	Optional Software 407001 (p. 75)	PC Interface
7000 Records	—	Optional Datalogger 380340 (p. 75)	Datalogging
10.6x2.7x1" (270x68x26mm)/7.1oz (200g)	7.6x3x1.45" (193x74x37mm)/15.2oz (430g)	7x2.8x1.3" (180x72x33mm)/12.3oz (350g)	Dimensions/Weight
Yes	Yes	Yes	CE
1 year	1 year	3 years	Warranty
\$299	\$549	\$299	Price