Thermocouple Thermometers

**Featuring Model HD200**

- **Dual Input**
  - Differential temperature measurements for servicing refrigeration and air conditioning

- **IR Thermometer Probe**
  - For non-contact temperature measurements from -22 to 1022°F (-30 to 550°C) for surfaces that are hard-to-reach or unsafe to touch

- **Triple Display**
  - Simultaneously view [T1, T2, T3 (IR)] or [T1-T2] or [T1-T3] or [T2-T3]

**Accessories**

- **TP882 High Temperature Penetration Probe**
- **TP200 Clamp Probe**

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>EA11A</th>
<th>TM100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single or Dual Input</td>
<td>Single</td>
<td>Single</td>
</tr>
<tr>
<td>Type K °F (°C)</td>
<td>-58 to 1999°F (-50 to 1300°C)</td>
<td>-328 to 2501°F (-200 to 1372°C)</td>
</tr>
<tr>
<td>Type J °F (°C)</td>
<td>—</td>
<td>-346 to 2012°F (-20 to 1100°C)</td>
</tr>
<tr>
<td>Infrared °F (°C)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.3% rdg</td>
<td>±0.15% rdg</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1°/1°</td>
<td>0.1°/1°</td>
</tr>
<tr>
<td>Datalogging</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5.9x2.8x1.3&quot; (150x72x35mm)</td>
<td>8.7x2.5x1.1&quot; (220x 63 x 28mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.3oz (235g)</td>
<td>7oz (200g)</td>
</tr>
<tr>
<td>CE</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**Order Meter with NIST Certificate**

All Extech meters come factory calibrated. For an additional charge, Extech will supply your meter with a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. To order meter with NIST:
- EA11A-NIST
- TM100-NIST
- EA10-NIST
- EA15-NIST
- HD200-NIST

*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.

**Extech Instruments: The brand of choice...**
**Thermocouple Thermometers**

*EasyView® Type K Dual input Thermometer with Dual readings*

Big backlit display with relative and elapsed time indication

- Displays [T1 and T2] or [T1-T2 and T1] or [T1-T2 and T2]
- Selectable units of °C/F or Kelvin
- Timer function displays elapsed time plus the time when MAX/MIN readings are taken
- OFFSET key used for zero function to make relative measurements
- Data hold and Auto power off
- Complete with built-in stand, protective holster, two Type K bead wire temperature probes (-4 to 482°F/-20 to 250°C), and 6 AAA batteries. (Optional temperature probes available on pages 42 and 80)

**EasyView® 7 Thermocouple Datalogger**

Internal memory stores up to 8800 data sets

- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit display
- 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
- Data Hold and Auto power off
- MAX/MIN/AVG or MAX/MIN with elapsed time
- Complete with two Type K bead wire temperature probes (-4 to 482°F/-20 to 250°C), Windows® 95/98/ME/NT/2000/XP compatible software, RS-232 cable for data transfer, protective holster, case, and 6 AAA batteries

**Differential Thermometer Datalogger + IR**

Automatically stores up to 18,000 readings and takes differential temperature readings with dual Type K thermocouple probes plus non-contact surface temperature measurement using IR Thermometer Probe

- Display [T1, T2, T3 (IR)] or [T1-T2] or [T1-T3] or [T2-T3]
- Records in a continuous mode up to 18,000 readings
- Differential displays for HVAC/ Superheat measurements
- Heavy duty double molded housing
- MAX/MIN/AVG and Data Hold
- USB port includes PC software
- Includes IR Thermometer probe (HD200-IR) with 8:1 distance to target ratio and Laser pointer
- Complete with two Type K bead wire temperature probes (-22 to 572°F/-30 to 300°C), IR probe, built-in stand, Windows® compatible software, USB cable, hard carrying case, and 9V battery

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<table>
<thead>
<tr>
<th>EA10</th>
<th>EA15</th>
<th>HD200</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type K Dual input</td>
<td>Type K Dual input</td>
<td>Type K Dual input + IR</td>
<td>Single or Dual Input</td>
</tr>
<tr>
<td>-200 to 1999°F (-200 to 1360°C)</td>
<td>-200 to 1994°F (-150 to 1090°C)</td>
<td>-328 to 2501°F (-200 to 1372°C)</td>
<td>Type K °F (°C)</td>
</tr>
<tr>
<td>6x2.8x1.5” (152x72x37mm)</td>
<td>5.9x2.8x1.38” (150x72x35mm)</td>
<td>9.9x2.9x1.9” (201x75x50mm)</td>
<td>Type J °F (°C)</td>
</tr>
<tr>
<td>8.3oz (235g)</td>
<td>8.3oz (235g)</td>
<td>9.8oz (280g)</td>
<td>InfraRed °F (°C)</td>
</tr>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Basic Accuracy</td>
</tr>
<tr>
<td>1 year</td>
<td>1 year</td>
<td>✓ 3 years</td>
<td>Resolution</td>
</tr>
<tr>
<td>8800 readings</td>
<td>18,000 readings</td>
<td></td>
<td>Datalogging</td>
</tr>
<tr>
<td>0.3% rdg</td>
<td>±0.05% rdg</td>
<td>±0.15%</td>
<td>Dimensions</td>
</tr>
<tr>
<td>0.1°F/°C</td>
<td>0.1°F/°C</td>
<td>0.1°F/°C</td>
<td>Weight</td>
</tr>
<tr>
<td>-22 to 1022°F (-30 to 550°C)</td>
<td></td>
<td></td>
<td>CE</td>
</tr>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Warranty</td>
</tr>
</tbody>
</table>
Thermocouple Thermometers, Datalogger, Printer

Extech offers a selection of thermometers with datalogging and printing capabilities for data storage analysis and report generation.

Featuring Model 421509

- **7 Thermocouple Types**
  - Use with J, K, T, E, R, S, and N Thermocouples

- **Datalogger plus PC software (included)**
  - Stores up to 1024 readings for further analysis using PC software

- **Differential Temperature**
  - Calculates the difference between two temperature readings (T1-T2) for Type J, Type K, or both Type J and K

- **Programmable Alarm**
  - High and Low temperature setpoints with audible alarm

Accessories:

(See pages 42 and 80 for Thermocouple/RTD Temperature Probes)

- AC Adaptor
  - 156119 ....117V AC Adaptor (for 407907)
  - 156221 ....220V AC Adaptor (for 407907)

- Carrying Case
  - 409997 ....Soft Vinyl Pouch Case (for 421502, 421509)
  - 140001 ....Hard Vinyl Carrying Case (for Heavy Duty Series)

Order Meter with NIST Certificate*

All Extech meters come factory calibrated. For an additional charge, Extech will supply your meter with a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. To order meter with NIST:

- 421502-NIST
- 421509-NIST
- 407907-NIST

*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Single/Dual Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type K °F (°C)</td>
<td>Type J °F (°C)</td>
</tr>
<tr>
<td>RTD/Thermistor °F (°C)</td>
<td>Basic Accuracy</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>Datalogging</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>CE</td>
</tr>
<tr>
<td>Warranty</td>
<td></td>
</tr>
</tbody>
</table>

Dual Type K Thermometer for differential temperature measurement in HVAC applications.
Thermocouple, RTD Thermometers

421502 Type J/K, Dual Input Thermometer with Alarms
Dual J or K input with dual display, relative and programmable High/Low audible alarms
- Widest range with highest 0.05% accuracy
- Rugged design for field use
- Large dual LCD displays T1, T2 or T1-T2, plus Elapsed Time
- Differential temperature between Type J, Type K, or both Type J and K
- MIN/MAX/AVG readings
- Data Hold and Relative functions
- Programmable Hi/Lo audible alarms
- Complete with two Type K bead wire temperature probes (-4 to 482°F/-20 to 250°C), protective holster with stand, and 9V battery
(Optional temperature probes available on pages 42 and 80)

421509 7 Thermocouple Datalogger with Alarm
Memory stores up to 16 data sets, 1024 maximum data capacity
- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, Time and advanced readouts
- T/C offset adjustment
- REC, MAX, MIN, MAX-MIN, AVG and °C/°F switchable
- Data Hold and Relative function
- Bi-directional RS-232 PC interface
- Programmable Hi/Lo alarm with Real time clock with calendar
- Auto power off with disable feature
- Complete with two Type-K bead wire temperature probes (-4 to 482°F/-20 to 250°C), Windows® 95/98/ME/NT/2000/XP compatible software, RS-232 cable, protective holster, and 9V battery

407907 Heavy Duty RTD Thermometer with PC Interface
Higher resolution to 0.01° over wide temperature ranges
- Wide temperature range measures to 1562°F (850°C)
- Built-in linearity correction with fast response
- Sampling time of 0.4 second
- Built-in RS-232 PC serial interface with optional 407001 Windows® 95/98/NT/2000/XP compatible Data Acquisition software and 380340 Datalogger (see page 108 for full details)
- Accepts 4 wire Pt-100Ω RTD probes with 4-pin connector
- Data Hold
- Complete with protective holster with stand and 9V battery (stainless steel RTD Temperature probes with 4-pin plugs sold separately)

<table>
<thead>
<tr>
<th>421502</th>
<th>421509</th>
<th>407907</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual</td>
<td>Dual</td>
<td>No</td>
</tr>
<tr>
<td>-328 to 2498°F (-200 to 1370°C)</td>
<td>-328 to 2501°F (-200 to 1372°C)</td>
<td>—</td>
</tr>
<tr>
<td>-328 to 1922°F (-200 to 1050°C)</td>
<td>-346 to 2192°F (-210 to 1200°C)</td>
<td>—</td>
</tr>
<tr>
<td>—</td>
<td>—</td>
<td>RTD: -199.99 to 1562°F (-199.99 to 850°C)</td>
</tr>
<tr>
<td>±0.05% rdg</td>
<td>±0.05% rdg</td>
<td>±(0.1%rdg+0.4°F/0.2°C)</td>
</tr>
<tr>
<td>0.2°F/0.1°C</td>
<td>0.1°F</td>
<td>0.01°F</td>
</tr>
<tr>
<td>—</td>
<td>1024 readings</td>
<td>Optional Datalogger 380340 (p.108)</td>
</tr>
<tr>
<td>7.63x3.6x2.1” (192x91x53mm)/13oz (365g)</td>
<td>7.5x3.6x2.0” (192x91x53mm)/12.8oz (365g)</td>
<td>7.1x2.8x1.3” (180x72x32mm)/10oz (285g)</td>
</tr>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
</tr>
</tbody>
</table>

See p. 108 for details on Data Acquisition software & Datalogger.

...trusted by the professionals.