Bimetal Dial Thermometers

Typical Applications
- Oil, Gas & Petrochemical
- Military
- Paper and Pulp
- Dairy
- Mining
- Food & Beverage
- Power Generation
- Utilities
- Refrigeration
- Marine

Bimetal Dial Thermometers are ideal for when you need a simple, “local” temperature display. Tempco offers 2 styles: Backmounted and Adjustable Angle, each available with either 3” or 5” dials.

**Backmounted Bimetal Dial Thermometers**

Design Features
- All Stainless Steel Construction
- Hermetically Sealed (ASME B40.3)
- Accurate to 1% of Full Scale
- Standard External Reset
- Silicone Fillable for Vibration Resistance
- 1/2” NPT Connection Standard
- Selected 3” and 5” Dial Thermometers Available from Stock

**Backmounted Bimetal Dial Thermometers Standard Sizes and Ranges**

<table>
<thead>
<tr>
<th>Dial Dia. (in)</th>
<th>Stem Length (in)</th>
<th>-40 to 160°F</th>
<th>0 to 100°F</th>
<th>0 to 200°F</th>
<th>0 to 250°F</th>
<th>50 to 300°F</th>
<th>50 to 550°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2.5</td>
<td>BMT10001</td>
<td>BMT10004</td>
<td>BMT10007</td>
<td>BMT10010</td>
<td>BMT10013</td>
<td>BMT10016</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>BMT10002</td>
<td>BMT10005</td>
<td>BMT10008</td>
<td>BMT10011</td>
<td>BMT10014</td>
<td>BMT10017</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>BMT10003</td>
<td>BMT10006</td>
<td><strong>BMT10009</strong></td>
<td>BMT10012</td>
<td>BMT10015</td>
<td>BMT10018</td>
</tr>
<tr>
<td>5</td>
<td>2.5</td>
<td>BMT10019</td>
<td>BMT10022</td>
<td>BMT10025</td>
<td>BMT10028</td>
<td><strong>BMT10031</strong></td>
<td>BMT10034</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>BMT10020</td>
<td>BMT10023</td>
<td>BMT10026</td>
<td>BMT10029</td>
<td><strong>BMT10032</strong></td>
<td>BMT10035</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>BMT10021</td>
<td>BMT10024</td>
<td>BMT10027</td>
<td>BMT10030</td>
<td>BMT10033</td>
<td>BMT10036</td>
</tr>
</tbody>
</table>

Stock Items Are Shown In RED

**Adjustable Angle Bimetal Dial Thermometers**

Design Features
- Complete 180° Adjustability
- 360° Case Rotation
- All Stainless Steel Construction
- Hermetically Sealed (ASME B40.3)
- Accurate to 1% of Full Scale
- Standard External Reset
- Silicone Fillable for Vibration Resistance
- 1/2” NPT Connection Standard
- Selected 3” and 5” Dial Thermometers Available from Stock

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Bimetal Dial Thermometers for Industrial Applications

Adjustable Angle Bimetal Dial Thermometers Standard Sizes and Ranges

1/2" NPT Connection Standard

<table>
<thead>
<tr>
<th>Dial Dia. (in)</th>
<th>Stem Length (in)</th>
<th>Part Number by Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2.5</td>
<td>-40 to 160°F BMT20001 BMT20004 BMT20007</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0 to 100°F BMT20008 BMT20010 BMT20013</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>0 to 200°F BMT20011 BMT20014 BMT20017</td>
</tr>
<tr>
<td>5</td>
<td>2.5</td>
<td>0 to 250°F BMT20019 BMT20022 BMT20025</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>50 to 300°F BMT20028 BMT20031 BMT20034</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>50 to 550°F BMT20029 BMT20032 BMT20035</td>
</tr>
</tbody>
</table>

Stock Items Are Shown In RED

Ordering Code

BMT – 1 2 3 4 5 6 7

Dial Diameter BOX 1
- Standard: 3 = 3"
- 5 = 5"
- Special: 4 = 4"
- 9 = Other (Specify)

Dial Mounting Style BOX 2
- A = Adjustable Angle
- B = Back Mounted

Stem Length BOX 3
- Whole inches + tenths
- Standard Stem Lengths are:
  - 025 = 2.5"
  - 040 = 4"
  - 060 = 6"
  - 090 = 9"
  - 120 = 12"
- Note: For special order, lengths from 2.5" (025) to 80" (800) are available.
- Consult Tempco with your requirements.

Mounting/Fitting BOX 4
- Standard: 1 = 1/2" NPT
- Special: 5 = 3/4" NPT adapter
- U = 1/2" NPT union (female conversion)
- C = 1-1/2" Sanitary Tri-Clamp
- L = 2" Sanitary Tri-Clamp
- M = 3/4" Sanitary Tri-Clamp
- Others available; consult TEMPCO with your requirements.

Temperature Scale BOX 5
- Standard: F = Fahrenheit
- Special: C = Celsius
- D = Dual

Temperature Ranges BOX 6
- Standard:
  - 23 = -40/160°F
  - 35 = 0/100°F
  - 43 = 0/200°F
  - 47 = 0/250°F
  - 63 = 50/300°F
  - 67 = 50/500°F
- Special:
  - 23 = -40/70°C
  - 35 = 0/100°F
  - 43 = 0/100°C
  - 47 = 0/250°F
  - 63 = 10/150°C
  - 67 = 10/250°C
  - 69 = 50/550°F
  - 81 = 150/750°F
  - 85 = 200/1000°F
- Others ranges available; consult Tempco with your requirements.

Special Options BOX 7
- PS = Pointed Stem
- PC = Acrylic Window
- SF = Silicone Fill
- PY = Polycarbonate Window
- SS = 316 SS Stem
- TG = Tempered Glass Window
- F3 = 3/8" Stem Diameter
- MM = Min/Max Pointer
- Others available; consult TEMPCO with your requirements.

Ordering Information

Bimetal Thermometers are offered with the options listed in the worksheet above. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned. Part Numbers for commonly used Bimetal Thermometers can be found in table above.

Standard lead time is stock to 3 weeks.

(800) 323-6859 • Email: sales@tempco.com
Digital Thermometers

Handheld Digital Thermometers — Heavy Duty, Accurate

Type J or K Thermometers with single or dual input, with direct or differential measurements to 0.1°

Design Features:

✴ Rugged design for field use — includes rubber holster.
✴ Displays Maximum reading and Data Hold at the touch of a button.
✴ Single or dual input models available.
✴ Dual input model provides differential readings.
✴ Accurate to 0.3%, °F/°C switchable on the front panel.
✴ Includes: 9V battery, holster with stand, wrist strap and bead-style temperature probe.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>DTM11010</th>
<th>DTM11020</th>
<th>DTM11030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermocouple:</td>
<td>Single Type K</td>
<td>Dual Type K</td>
<td>Dual Type J or K</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td>-58° to 2000°F (-50° to 1300°C)</td>
<td>-328° to 1922°F (-200° to 1050°C)</td>
<td>-328° to 2498°F (-200° to 1370°C)</td>
</tr>
<tr>
<td>Basic Accuracy:</td>
<td>± 0.3% of reading</td>
<td>± 0.05% of reading</td>
<td>± 0.3% of reading</td>
</tr>
<tr>
<td>Display Counts:</td>
<td>2000</td>
<td>20,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Resolution:</td>
<td>0.1° / 1°</td>
<td>0.2°F / 0.1°C</td>
<td>0.1° / 1°</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>6.5&quot; × 3&quot; × 1.7&quot; (165 × 76 × 43mm)</td>
<td>7.6&quot; × 3.6&quot; × 2.1&quot; (192 × 91 × 53mm)</td>
<td>7.6&quot; × 3.6&quot; × 2.1&quot; (192 × 91 × 53mm)</td>
</tr>
<tr>
<td>Weight:</td>
<td>14.2 oz (403g)</td>
<td>13 oz (365g)</td>
<td>16 oz (453g)</td>
</tr>
</tbody>
</table>

Temperature Probes – Thermocouple Type K

All probes shown come with 39” of cable and a mini-type plug.

**DTA11015**

✴ Surface Probe
✴ Straight Shaft
✴ 6” (152 mm) long Ceramic Tip
✴ Maximum Temperature: 932°F / 500°C

**DTA11025**

✴ Blunt-end Probe
✴ 4” (102 mm) long, 0.130” dia. rounded tip
✴ Type K T/C
✴ Maximum Temperature: 1292°F / 700°C

**DTA11035**

✴ Piercing-end Probe
✴ 4” (102 mm) long, 0.130” dia. rounded tip
✴ Type K T/C
✴ Maximum Temperature: 1472°F / 800°C

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