Temperature Products

Model BOTC 3” and 5” Bottom Connected Industrial Bimetallic Thermometers

DESCRIPTION
U.S. Gauge offers 3” and 5” heavy duty, industrial bimetallic thermometers with a threaded union connection and straight form design. These thermometers, with 316 stainless steel wetted parts, are rugged and commonly used in industrial and OEM applications.

The standard connection is 1/2-14 NPT, but others are available. Four stem positions are available and can be specified for TOP (12:00), RIGHT (3:00), BOTTOM (6:00), or LEFT (9:00). The thermometers may be silicone filled for additional vibration dampening. A variety of lens materials are available including acrylic, polycarbonate, shatterproof and tempered glass. Standard stem diameter, up to 42” long, is .25”. Other available stem sizes are .24” (6 mm), .32” (8 mm), and .375” (9.52 mm).

SPECIFICATIONS

- STEM DIAMETER: .25” standard up to 42” stem; .375” standard over 42” stem
- CONNECTION: 1/2-14 NPT
- EXTERNAL RESET: Easy to calibrate by inserting hex wrench into reset opening
- CONSTRUCTION: 304 stainless steel external parts, welded construction; corrosion resistant to most chemicals
- HERMETIC SEAL: Per ASME B40.3, dustproof and leakproof
- DIAL: True anti-parallax dial, easy to read from any angle, minimizes reading errors; anodized aluminum with large black numbers and graduations
- LENS: Glass
- BIMETALLIC COIL: Helix coil is silicone coated on ranges below 500ºF for vibration dampening and to maximize heat transfer and response time
- ACCURACY: ±1% full span per ASME B40.3 Grade A
- OVER TEMPERATURE LIMITS: Up to 250ºF, 100%; 250º to 550ºF, 50%; 550º to 1000ºF, continuous use up to 800ºF, intermittent use over 800ºF

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>inches</td>
<td>1.19</td>
<td>3.19</td>
<td>2.30</td>
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<tr>
<td></td>
<td>mm</td>
<td>30.15</td>
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<td>5”</td>
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<td></td>
<td>mm</td>
<td>41.28</td>
<td>128.02</td>
<td>76.20</td>
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AMETEK

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www.ametekusg.com

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# Temperature Products

## Model BOTC 3” and 5” Bottom Connected Industrial Bimetallic Thermometers

### SPEC NUMBER SELECTION CHART

#### Model BOTC-3

<table>
<thead>
<tr>
<th>Connection</th>
<th>Temperature Range*</th>
<th>2-1/2&quot; Stem Length</th>
<th>4&quot; Stem Length</th>
<th>6&quot; Stem Length</th>
<th>9&quot; Stem Length</th>
<th>12&quot; Stem Length</th>
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<td>415067</td>
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<td>–</td>
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<tr>
<td></td>
<td>0 to 250 FC</td>
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<td>415072</td>
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<td>50 to 550 FC</td>
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<th>Temperature Range*</th>
<th>2-1/2&quot; Stem Length</th>
<th>4&quot; Stem Length</th>
<th>6&quot; Stem Length</th>
<th>9&quot; Stem Length</th>
<th>12&quot; Stem Length</th>
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<tbody>
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<td>0 to 250 FC</td>
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* All dials are dual scale, Fahrenheit outer scale, Celsius inner scale