Bimetal Thermometer
Model TI.53, All Stainless Steel Construction

Applications
- Suitable for fluid medium which does not corrode 304 stainless steel

Special features
- Industrial design
- Back connection without external reset
- All Stainless steel construction

Standard version

Size
5” (127mm)

Accuracy
± 1.0% full scale value (ASME B40.3)

Ranges
-100°F to 1000°F (and equivalent Celsius)

Working Range
Steady: full scale value
Short time: 110% of full scale value

Under/Over Range Protection
Temporary over or under range tolerance of 50% of scale up to 500°F (260°C). For ranges above 500°F, maximum over range is 800°F; continuous. 1000°F intermittent.

Connection
Material: 304 stainless steel
Center back mount (CBM) - Type TI.53
1/2” NPT Connection

Stem
Material: 304 stainless steel
Diameter: 1/4” (6.35 mm)
Length: 2½” to 24” (63.5 mm to 609.6 mm)

Measuring Element
Bi-metal helix

Dial
White aluminum, dished, with black markings

Case
Material: 304 stainless steel
Hermetically sealed
Ingress protection IP 65

Pointer
Black aluminum

Standard Scales
Single: Fahrenheit or Celsius
Dual: Fahrenheit (outer) and Celsius (inner)

Window Gasket
Neoprene (-100°F and over 550°F)

Silicone (-100°F and over 550°F)

Window
Flat instrument glass

Weight
16 oz. (Type TI.53)
Add 1 oz. for every 2” of stem length

Dampening
Inert gel to minimize pointer oscillation

Warranty
Limited one year warranty as stated in WIKA’s Terms & Conditions of Sale
Optional Extras

- Thermowells
- Special scales and dial markings
- Acrylic and safety glass windows
- Quality calibration certification traceable to NIST

STANDARD RANGES

<table>
<thead>
<tr>
<th>Fahrenheit</th>
<th>Dual Scale F &amp; C</th>
<th>Celsius</th>
</tr>
</thead>
<tbody>
<tr>
<td>-100/150°F</td>
<td>-100/150°F &amp; -70/70°C</td>
<td>-50/50°C</td>
</tr>
<tr>
<td>-40/120°F</td>
<td>-40/120°F &amp; -40/50°C</td>
<td>-20/120°C</td>
</tr>
<tr>
<td>0/140°F</td>
<td>0/140°F &amp; -20/60°C</td>
<td>0/50°C1</td>
</tr>
<tr>
<td>0/200°F</td>
<td>0/200°F &amp; -15/90°C</td>
<td>0/100°C</td>
</tr>
<tr>
<td>0/250°F</td>
<td>0/250°F &amp; -20/120°C</td>
<td>0/150°C</td>
</tr>
<tr>
<td>20/240°F</td>
<td>20/240°F &amp; -5/115°C</td>
<td>0/200°C</td>
</tr>
<tr>
<td>25/125°F</td>
<td>25/125°F &amp; -5/50°C1</td>
<td>0/250°C</td>
</tr>
<tr>
<td>50/300°F</td>
<td>50/300°F &amp; 10/150°C</td>
<td>0/300°C</td>
</tr>
<tr>
<td>50/400°F</td>
<td>50/400°F &amp; 10/200°C</td>
<td>0/450°C1</td>
</tr>
<tr>
<td>50/550°F</td>
<td>50/500°F &amp; 10/260°C</td>
<td>100/550°C1</td>
</tr>
<tr>
<td>150/750°F</td>
<td>150/750°F &amp; 65/400°C</td>
<td></td>
</tr>
<tr>
<td>200/1000°F1</td>
<td>200/1000°F &amp; 100/540°C1</td>
<td></td>
</tr>
</tbody>
</table>

*Not recommended for continuous service over 800°F (425°C)

Dimensions

**STANDARD VERSIONS**

<table>
<thead>
<tr>
<th>DIAL SIZE</th>
<th>A (5” (127 mm))</th>
<th>B (5-1/4” (133.4 mm))</th>
<th>C (15/16” (23.8 mm))</th>
<th>S (Stem Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>5” (127 mm)</td>
<td>5-1/4” (133.4 mm)</td>
<td>15/16” (23.8 mm)</td>
<td>5/16” (7.9 mm)</td>
</tr>
</tbody>
</table>

Note: Thermowells for temperature instruments are recommended for all process systems where pressure, velocity, or viscous, abrasive, and corrosive materials are present individually or in combination. A properly selected thermowell protects the temperature instrument from possible damage resulting from these process variables. Furthermore, a thermowell permits removal of the temperature instrument for replacement, repair or testing without affecting the process media or the system.

Ordering information

State computer part number (if available) /type number/size/range/connection size and locations/options required. WIKA reserves the right to make changes without prior notice.