Bimetal Thermometer
Model TI.52, Stainless Steel Case & Wetted Parts

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

Special features
- Industrial design
- Adjustable angle connection with external reset
- Stainless steel case and wetted parts

Standard version

Size
5” (127mm) Type TI.52

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

Over Range
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
Adjustable angle, 1/2” NPT

Stem
Material: 304 stainless steel
Diameter: 1/4” (6.35 mm)
Length: 2½” to 72” (63.5 mm to 1,828.8 mm)

Measuring Element
Bi-metal helix

Dial
White aluminum, dished, with black markings

Datasheet TI.52

Thermometer TI.52 Case
Material: 304 stainless steel
Hermetically sealed per ASME B40.3 standard
Ingress protection IP 65
External reset slotted hex head on back of case

Pointer
Black aluminum

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

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

Window
Flat instrument glass

Weight
26 oz. (5” dial)
Add 1 oz for every 2” of stem length

Dampening
Inert gel to minimize pointer oscillation

Movement
Viscous inert gel to enhance pointer operation

Warranty
7- Year Warranty
Optional Extras

- Thermowells
- Silicone fill
- Dampened Movement
- Special scales and dial markings
- Acrylic and safety glass windows
- Calibration certification traceable to NIST
- Min/max pointer
- DIN standards

STANDARD RANGES

<table>
<thead>
<tr>
<th>Fahrenheit</th>
<th>Dual Scale F &amp; C</th>
<th>Celsius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Scale</td>
<td>F Outer, C Inner</td>
<td>Single Scale</td>
</tr>
<tr>
<td>-100/150 F</td>
<td>-100/150 F &amp; -70/70 C</td>
<td>-50/50 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 F1</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 C2</td>
</tr>
<tr>
<td>50/550 F</td>
<td>50/550 F &amp; 10/260 C</td>
<td>100/550 C2</td>
</tr>
<tr>
<td>150/750 F</td>
<td>150/750 F &amp; 65/400 C</td>
<td>150/750 F &amp; 65/400 C</td>
</tr>
<tr>
<td>200/1000 F3</td>
<td>200/1000 F &amp; 100/540 C2</td>
<td>100/550 C2</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 effecting the process media or the system.

Dimensions

STANDARD RANGES

<table>
<thead>
<tr>
<th>WIKA Type</th>
<th>DIAL SIZE</th>
<th>A</th>
<th>B</th>
<th>S (Stem Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>5” (127 mm)</td>
<td>5-1/4” (133.35 mm)</td>
<td>15/16” (23.8 mm)</td>
<td>As Specified</td>
</tr>
</tbody>
</table>

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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.