Bimetal Thermometer
Model TI.51, Stainless Steel Case & Wetted Parts

Applications

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

Special features

- Industrial design
- Lower (bottom) connection with external reset
- Stainless steel case and wetted parts

Standard version

Size
5” (127mm) Type TI.51

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
Lower mount (LM), 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

Thermometer TI.51

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
24 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

STANDARD RANGES

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

*Minimum stem length 4" for Type 51

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

Dimensions

Standard versions

- Thermowells
- Silicone fill
- Dampened Movement
- Special scales and dial markings
- Acrylic and safety glass windows
- Calibration certification traceable to NIST

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.

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.