Bimetal Thermometer, Industrial Grade - All Stainless Steel Construction
Type TI.34 - 3” Dial Size, Bottom Connected

Applications
- A wide range of applications including machine building, vessels, micro-brewing, boilers and water systems/piping
- Heating and air-conditioning technology (HVAC)
- Temperature measurement in harsh and aggressive environments

Product features
- Robust industrial design
- Lower (bottom) connection without external reset
- NEMA 4X (IP 66) weather protection

Specifications
Size
3” (76.2 mm)

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

Ranges
From -100°F (70°C) to 1000°F (540°C)
From -50°C to 550°C (as single scale)
See table on page 2

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

Over/Under Range Protection
≤ +500°F (+260°C): Temporary up to 50% of full scale
> +500°F (+260°C): Continuous to 800°F (+427°C)
Intermittant up to 1000°F (+538°C)

Connection
Material: 304 stainless steel
Lower mount (LM), 1/2” NPT

Stem
Material: 304 stainless steel
Diameter: ¼” (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
Weather protection NEMA 4X (IP 66)

Pointer
Black aluminum

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

Window Gasket
Neoprene
Silicone for ranges -100°F (-70°C) and ranges > +550°F (+260°C)

Window
Flat instrument glass

Weight
11 oz. (311 g) - Type TI.34
Add 1 oz. (28 g) for every 2” (50 mm) 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
- Calibration certification traceable to NIST

### Dimensions

#### Standard versions

<table>
<thead>
<tr>
<th>Stem Length</th>
<th>DIAL SIZE</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>S (mm)</th>
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</thead>
<tbody>
<tr>
<td>2 1/2&quot; (63.5 mm)</td>
<td>3&quot; (76.2 mm)</td>
<td>3-1/4&quot; (82.6 mm)</td>
<td>1-7/8&quot; (47.6 mm)</td>
<td>As Specified</td>
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<td>4&quot; (101.6 mm)</td>
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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.