

# prosense® Bi-Metal Dial Thermometers

T50



T30



## Features

- General purpose 3" and 5" dial, 304 stainless steel thermometer
- Bi-metallic sensing element for reliable readings
- Back or adjustable angle connection
- Welded stem length from 2.5" to 9"
- Dual scale (°F / °C)
- ±1% accuracy
- Anti-parallax dial that reduces operator reading errors
- Re-zero adjustment screws
- Optional thermowells
- 5 year warranty



## Applications

- Industrial process, hot/chilled water lines, boilers, HVAC, food processing and wastewater, OEM

Click on the thumbnail or go to <https://www.automationdirect.com/VID-TE-0001> for a short video on Bi-Metal Dial Thermometers



### ProSense 3" Dial Bi-Metal Thermometers

| Part Number                    | Description                                                                            | Pcs/Pkg | Wt(lb) | Price   | Thermowell                                                                                   |
|--------------------------------|----------------------------------------------------------------------------------------|---------|--------|---------|----------------------------------------------------------------------------------------------|
| <a href="#">T30-N40160-25C</a> | Thermometer, 3 in. dial, 2.5 in. stem, -40 to 160 °F (-40 to 70 °C), center back mount | 1       | 0.50   | \$41.50 | TW025-01*<br><a href="#">TW025-03*</a>                                                       |
| <a href="#">T30-0250-25C</a>   | Thermometer, 3 in. dial, 2.5 in. stem, 0 to 250 °F (-18 to 120 °C), center back mount  | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-50500-25C</a>  | Thermometer, 3 in. dial, 2.5 in. stem, 50 to 500 °F (10 to 260 °C), center back mount  | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-150750-25C</a> | Thermometer, 3 in. dial, 2.5 in. stem, 150 to 750 °F (70 to 400 °C), center back mount | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-N40160-4C</a>  | Thermometer, 3 in. dial, 4 in. stem, -40 to 160 °F (-40 to 70 °C), center back mount   | 1       | 0.50   | \$41.50 | TW04-01*<br><a href="#">TW04-02*</a><br><a href="#">TW04-03*</a><br><a href="#">TW04-04*</a> |
| <a href="#">T30-0250-4C</a>    | Thermometer, 3 in. dial, 4 in. stem, 0 to 250 °F (-18 to 120 °C), center back mount    | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-50500-4C</a>   | Thermometer, 3 in. dial, 4 in. stem, 50 to 500 °F (10 to 260 °C), center back mount    | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-150750-4C</a>  | Thermometer, 3 in. dial, 4 in. stem, 150 to 750 °F (70 to 400 °C), center back mount   | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-N40160-6C</a>  | Thermometer, 3 in. dial, 6 in. stem, -40 to 160 °F (-40 to 70 °C), center back mount   | 1       | 0.50   | \$41.50 | TW06-01*<br><a href="#">TW06-02*</a><br><a href="#">TW06-03*</a><br><a href="#">TW06-04*</a> |
| <a href="#">T30-0250-6C</a>    | Thermometer, 3 in. dial, 6 in. stem, 0 to 250 °F (18 to 120 °C), center back mount     | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-50500-6C</a>   | Thermometer, 3 in. dial, 6 in. stem, 50 to 500 °F (10 to 260 °C), center back mount    | 1       | 0.50   | \$41.50 |                                                                                              |
| <a href="#">T30-150750-6C</a>  | Thermometer, 3 in. dial, 6 in. stem, 150 to 750 °F (70 to 400 °C), center back mount   | 1       | 0.50   | \$41.50 |                                                                                              |

### ProSense 5" Dial Bi-Metal Thermometers

| Part Number                    | Description                                                                                 | Pcs/Pkg | Wt(lb) | Price   | Thermowell                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------|---------|--------|---------|----------------------------------------------------------------------------------------------|
| <a href="#">T50-N40160-25A</a> | Thermometer, 5 in. dial, 2.5 in. stem, -40 to 160 °F (-40 to 70 °C), adjustable angle mount | 1       | 1.30   | \$95.00 | TW025-01*<br><a href="#">TW025-03*</a>                                                       |
| <a href="#">T50-0250-25A</a>   | Thermometer, 5 in. dial, 2.5 in. stem, 0 to 250 °F (-18 to 120 °C), adjustable angle mount  | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-50500-25A</a>  | Thermometer, 5 in. dial, 2.5 in. stem, 50 to 500 °F (10 to 260 °C), adjustable angle mount  | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-150750-25A</a> | Thermometer, 5 in. dial, 2.5 in. stem, 150 to 750 °F (70 to 400 °C), adjustable angle mount | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-N40160-4A</a>  | Thermometer, 5 in. dial, 4 in. stem, -40 to 160 °F (-40 to 70 °C), adjustable angle mount   | 1       | 1.30   | \$95.00 | TW04-01*<br><a href="#">TW04-02*</a><br><a href="#">TW04-03*</a><br><a href="#">TW04-04*</a> |
| <a href="#">T50-0250-4A</a>    | Thermometer, 5 in. dial, 4 in. stem, 0 to 250 °F (-18 to 120 °C), adjustable angle mount    | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-50500-4A</a>   | Thermometer, 5 in. dial, 4 in. stem, 50 to 500 °F (10 to 260 °C), adjustable angle mount    | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-150750-4A</a>  | Thermometer, 5 in. dial, 4 in. stem, 150 to 750 °F (70 to 400 °C), adjustable angle mount   | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-N40160-6A</a>  | Thermometer, 5 in. dial, 6 in. stem, -40 to 160 °F (-40 to 70 °C), adjustable angle mount   | 1       | 1.30   | \$95.00 | TW06-01*<br><a href="#">TW06-02*</a><br><a href="#">TW06-03*</a><br><a href="#">TW06-04*</a> |
| <a href="#">T50-0250-6A</a>    | Thermometer, 5 in. dial, 6 in. stem, 0 to 250 °F (-18 to 120 °C), adjustable angle mount    | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-50500-6A</a>   | Thermometer, 5 in. dial, 6 in. stem, 50 to 500 °F (10 to 260 °C), adjustable angle mount    | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-150750-6A</a>  | Thermometer, 5 in. dial, 6 in. stem, 150 to 750 °F (70 to 400 °C), adjustable angle mount   | 1       | 1.30   | \$95.00 |                                                                                              |
| <a href="#">T50-N40160-9A</a>  | Thermometer, 5 in. dial, 9 in. stem, -40 to 160 °F (-40 to 70 °C), adjustable angle mount   | 1       | 1.50   | \$95.00 | TW09-01*<br><a href="#">TW09-03*</a>                                                         |
| <a href="#">T50-0250-9A</a>    | Thermometer, 5 in. dial, 9 in. stem, 0 to 250 °F (-18 to 120 °C), adjustable angle mount    | 1       | 1.50   | \$95.00 |                                                                                              |
| <a href="#">T50-150750-9A</a>  | Thermometer, 5 in. dial, 9 in. stem, 150 to 750 °F (70 to 400 °C), adjustable angle mount   | 1       | 1.50   | \$95.00 |                                                                                              |

\* Catalog pages for these thermowells are located on previous pages in this same section, under the "Thermowells for Spring-Loaded Thermocouples and RTD's, or Thermometers" pages.

# prosense® Bi-Metal Dial Thermometers

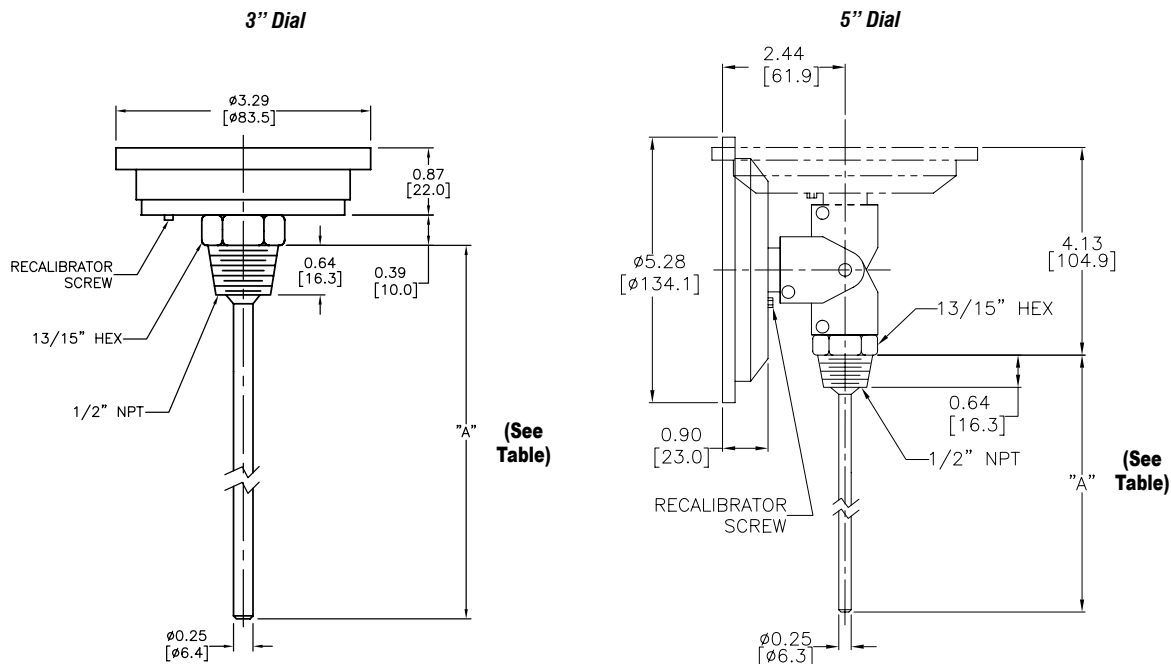
| Technical Specifications          |                                               |                                        |
|-----------------------------------|-----------------------------------------------|----------------------------------------|
| <b>Dial Size</b>                  | 3.0" [76.2 mm]                                | 5.0" [127 mm]                          |
| <b>Case</b>                       | AISI 304 SS                                   |                                        |
| <b>Stem</b>                       | AISI 304 SS welded to socket, center back     | AISI 304 center back, adjustable angle |
| <b>Lens</b>                       | Glass, hermetically sealed                    |                                        |
| <b>Ring</b>                       | AISI 304 SS                                   |                                        |
| <b>Connection</b>                 | 1/2" NPT                                      |                                        |
| <b>Sensing Element</b>            | Bi-metallic coil                              |                                        |
| <b>Pointer</b>                    | Aluminum, painted black                       |                                        |
| <b>Maximum Operating Pressure</b> | 125 psi (861 kPa)                             |                                        |
| <b>Operating Temperature</b>      | 75% of full scale value (recommended maximum) |                                        |
| <b>Ambient Temperatures</b>       | -58°F to 248°F (-50°C to 120°C)               |                                        |
| <b>Accuracy</b>                   | ±1%                                           |                                        |
| <b>Enclosure Rating</b>           | IP68                                          |                                        |



*Note: The use of a thermowell is recommended to protect the thermometer in corrosive or pressure applications, as well as to maintain a closed system during its removal from the process.*

## Dimensions

Inches [mm]



| Dimension "A" According to Thermometer Model |        |             |
|----------------------------------------------|--------|-------------|
| Part Number Ending With:                     | Inches | Millimeters |
| -25C                                         | 2.5"   | 63.5 mm     |
| -4C                                          | 4"     | 101.6 mm    |
| -6C                                          | 6"     | 152.4 mm    |
| -9C                                          | 9"     | 228.6 mm    |