

Bimetal, Instrument Type

300 SERIES



APPLICATIONS

- Ideal for construction applications where on-the-job piping requires reading the instrument from different angles
- Industrial process
- Petrochemical
- Food processing
- Commercial
- Wastewater

- Highest quality thermometers available on the market
- Corrosion-resistant 304 stainless steel case and bezel provide a hermetic seal to prevent lens fogging and moisture damage
- Temperature ranges from -100 °F to 150 °F through 200 °F to 1,000 °F, single and dual scales available
- Accuracy: ±1% full scale, Grade A, ASME B40.3
- 3" and 5" sizes - center back, bottom connected
- Adjustable angle connection on 30-320 and 50-320 models
- 1/2" NPT connection
- 2-1/2" to 72" stem lengths available
- Heavy-duty 316 stainless steel stem (0.375" diameter) optional
- Minimum or maximum indicating pointers are available in 3" and 5" sizes
- The bimetal element is an extremely responsive temperature sensing helix which has been carefully sized, tested, heat-treated and aged to relieve inherent stresses and ensure continued accuracy
- Slotted hex head adjustment offers field calibration for maximum accuracy at a selected range
- For accurate readings, the minimum recommended stem immersion is 2-1/2" in liquids and 4" in gases
- Options include laminated safety glass lenses, special ranges, custom dial layouts, special stems, different connections (1/4" and 3/8" NPT Male), and a silicone liquid filled option is available for applications involving severe vibration

| | SERIES | SPECIFICATIONS |
|-----------------------|---|---|
| Case | 30-300, 50-300, 30-310 50-310, 30-320, 50-320, 10-310 | 304 stainless steel |
| Bezel | 30-300, 50-300, 30-310 50-310, 30-320, 50-320, 10-310 | 304 stainless steel electroless polished |
| Lens | 30-300, 50-300, 30-310 50-310, 30-320, 50-320, 10-310 | Instrument glass Polycarbonate |
| Pointer | 30-300, 50-300, 30-310 50-310, 30-320, 50-320 10-310 | Aluminum, black finish Aluminum, red finish |
| Stem | 30-300, 50-300, 30-310 50-310, 30-320, 50-320, 10-310 | 304 stainless steel |
| Accuracy | 30-300, 50-300, 30-310 50-310, 30-320, 10-310 | ±1% full scale, Grade A, ASME B40.3 |
| Dial | 30-300, 50-300, 30-310 50-310, 30-320, 50-320, 10-310 | Aluminum, white background, dual scale, black Celsius scale and black Fahrenheit scale |
| Recalibrator | 30-300, 50-300, 30-310, 50-320, 10-310 | External reset |
| Adjustable angle form | 30-320, 50-320 | Adjustment of the stainless steel harness allows case rotation of 360° and stem variation of more than 180° |

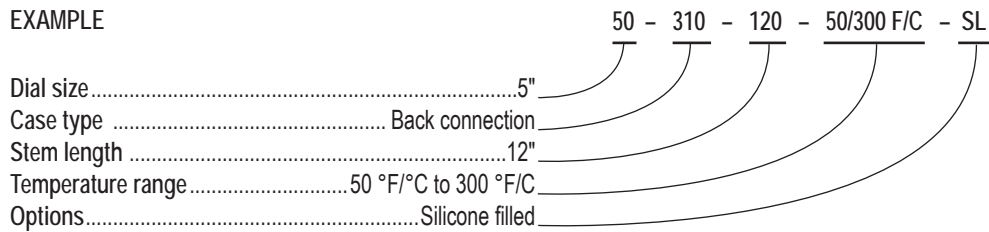
Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 28-29.

| ORDERING INFORMATION | | | | | | |
|-------------------------|---|--|-----------------------------------|--|---------------------------------------|--|
| SERIES | 300 | | | | | |
| DIAL SIZES | 30 3" | | 50 5" | | | |
| CASE TYPES | 300 Bottom connection | | 310 Back connection | | 320 Adjustable angle connection | |
| STEM LENGTHS | 025 2-1/2" | | 120 12" | | 300 30" | |
| | 040 4" | | 150 15" | | 360 36" | |
| | 060 6" | | 180 18" | | 420 42" | |
| | 090 9" | | 240 24" | | 480 48" | |
| TEMPERATURE RANGES | -100/150 F/C -100 °F/°C to 150 °F/°C | | 30/130 F/C 30 °F/°C to 130 °F/°C† | | 50/500 F/C 50 °F/°C to 500 °F/°C | |
| | -80/120 F/C -80 °F/°C to 120 °F/°C | | 0/140 F/C 0 °F/°C to 140 °F/°C | | 50/550 F/C 50 °F/°C to 550 °F/°C | |
| <i>Dual Scale °F/°C</i> | -40/120 F/C -40 °F/°C to 120 °F/°C | | 0/200 F/C 0 °F/°C to 200 °F/°C | | 0/600 F/C 0 °F/°C to 600 °F/°C | |
| | -20/120 F/C -20 °F/°C to 120 °F/°C | | 0/250 F/C 0 °F/°C to 250 °F/°C | | 150/750 F/C 150 °F/°C to 750 °F/°C | |
| | -40/160 F/C -40 °F/°C to 160 °F/°C | | 20/240 F/C 20 °F/°C to 240 °F/°C | | 100/800 F/C 100 °F/°C to 800 °F/°C | |
| | 0/100 F/C 0 °F/°C to 100 °F/°C† | | 50/300 F/C 50 °F/°C to 300 °F/°C | | 200/1000 F/C 200 °F/°C to 1,000 °F/°C | |
| | 25/125 F/C 25 °F/°C to 125 °F/°C† | | 50/400 F/C 50 °F/°C to 400 °F/°C | | | |
| <i>Single Scale °F</i> | -100/150 F -100 °F to 150 °F | | 30/130 F 30 °F to 130 °F† | | 50/500 F 50 °F to 500 °F | |
| | -80/120 F -80 °F to 120 °F | | 0/140 F 0 °F to 140 °F | | 50/550 F 50 °F to 550 °F | |
| | -40/120 F -40 °F to 120 °F | | 0/200 F 0 °F to 200 °F | | 0/600 F 0 °F to 600 °F | |
| | -20/120 F -20 °F to 120 °F | | 0/250 F 0 °F to 250 °F | | 150/750 F 150 °F to 750 °F | |
| | -40/160 F -40 °F to 160 °F | | 20/240 F 20 °F to 240 °F | | 100/800 F 100 °F to 800 °F | |
| | 0/100 F 0 °F to 100 °F† | | 50/300 F 50 °F to 300 °F | | 200/1000 F 200 °F to 1,000 °F | |
| | 25/125 F 25 °F to 125 °F† | | 50/400 F 50 °F to 400 °F | | | |
| <i>Single Scale °C</i> | -70/70 C -70 °C to 70 °C | | 0/55 C 0 °C to 55 °C† | | 0/250 C 0 °C to 250 °C | |
| | -60/50 C -60 °C to 50 °C | | -20/60 C -20 °C to 60 °C | | 10/290 C 10 °C to 290 °C | |
| | -50/50 C -50 °C to 50 °C | | 0/100 C 0 °C to 100 °C | | -20/315 C -20 °C to 315 °C | |
| | -30/50 C -30 °C to 50 °C | | -20/120 C -20 °C to 120 °C | | 0/300 C 0 °C to 300 °C | |
| | -40/70 C -40 °C to 70 °C | | -10/110 C -10 °C to 110 °C | | 0/450 C 0 °C to 450 °C | |
| | -20/40 C -20 °C to 40 °C† | | 0/150 C 0 °C to 150 °C | | 100/550 C 100 °C to 550 °C | |
| | 0/50 C 0 °C to 50 °C† | | 0/200 C 0 °C to 200 °C | | | |
| | Consult factory for additional temperature ranges | | | | | |
| OPTIONS | 1/4 1/4" NPT | | SG Safety Glass Lens | | HD Heavy-Duty Stem (0.375" Dia.) | |
| | 3/8 3/8" NPT | | LL Polycarbonate Lens | | AU 1/2" NPT Adjustable Union | |
| | 1/2 1/2" NPT* | | MIP Maximum Indicating Pointer†† | | SL Silicone Filled (500 °F Max)** | |
| | PL Acrylic Lens | | 316 316 SS Connection & Stem | | MM Manocont Movement | |

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

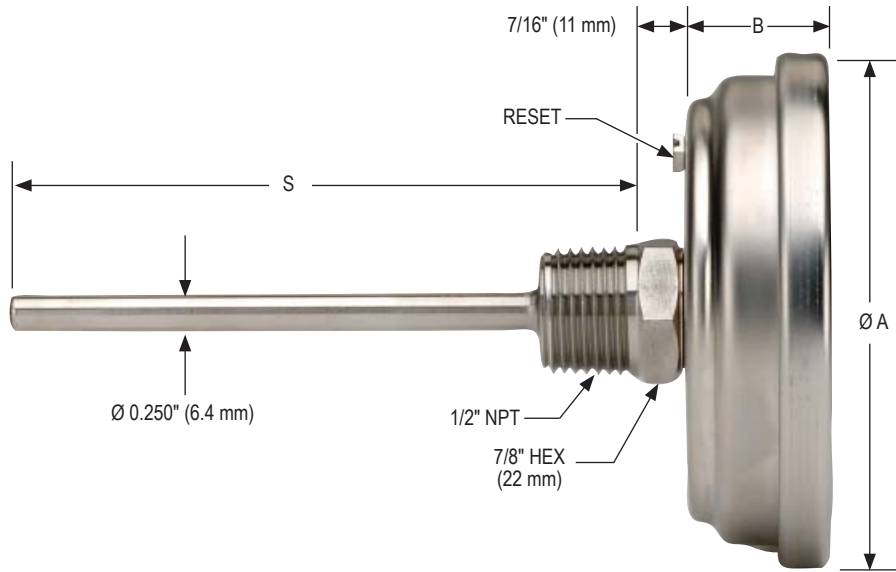
- * Standard connection on 3" dial size
- ** Requires acrylic lens option
- † Not available with 2-1/2" stem length
- †† Only available on 310 Series case type

EXAMPLE

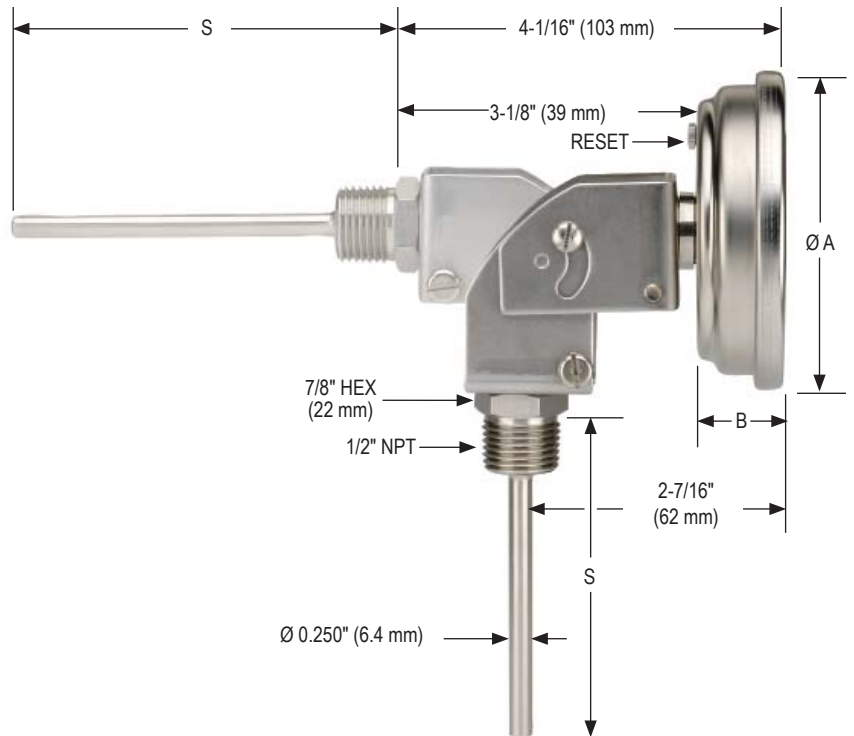
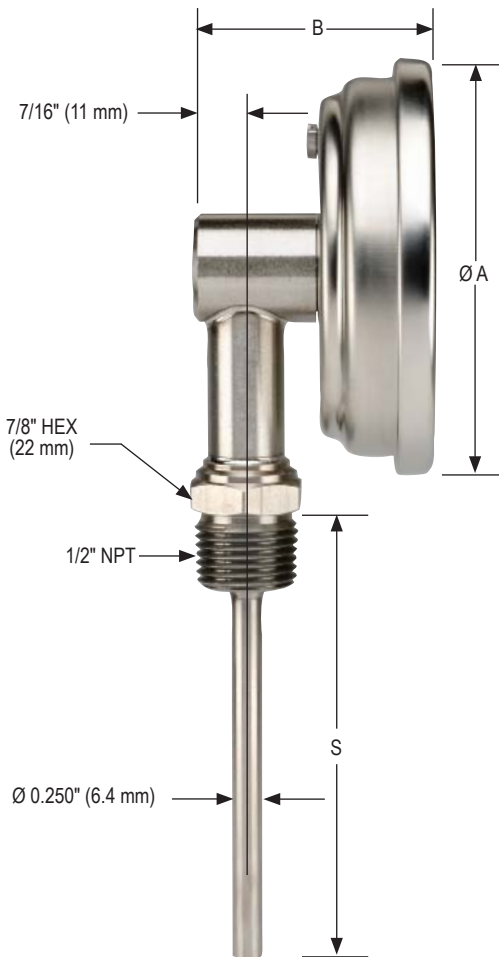


Dimensions

30-310/50-310



30-300/50-300 30-320/50-320

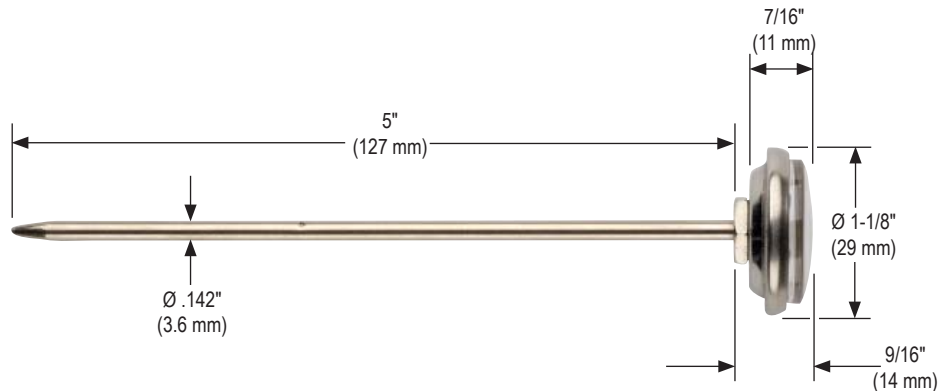
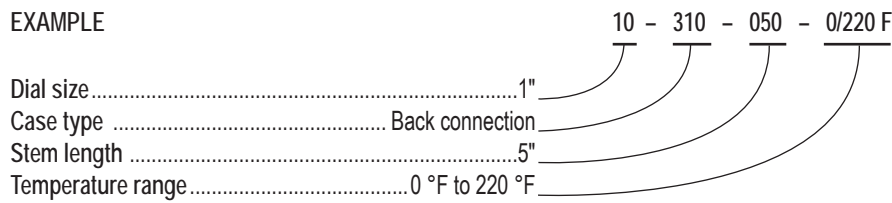


Pocket Size Thermometer

| ORDERING INFORMATION | | | | |
|----------------------|---------------------|------------------|----------|-----------------|
| SERIES | 310 | | | |
| DIAL SIZE | 10 1" | | | |
| CASE TYPE | 310 Back connection | | | |
| STEM LENGTH | 050 5" | | | |
| TEMPERATURE RANGES | -40/160 F | -40 °F to 160 °F | 0/220 F | 0 °F To 220 °F |
| | | | 50/550 F | 50 °F to 550 °F |

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EXAMPLE



| Series | | Ø A | B | S (Stem Length) |
|--------|------------|--------------|-------------|-----------------|
| 30-300 | mm inch | 83 3-1/4 | 48 1-7/8 | As specified |
| 50-300 | mm inch | 133 5-1/4 | 48 1-7/8 | As specified |
| 30-310 | mm inch | 83 3-1/4 | 24 15/16 | As specified |
| 50-310 | mm inch | 133 5-1/4 | 24 15/16 | As specified |
| 30.320 | mm inch | 83 3-1/4 | 24 15/16 | As specified |
| 50-320 | mm inch | 133 5-1/4 | 24 15/16 | As specified |