Back Connect Bimetal Thermometer

REOTEMP INSTRUMENTS
Measuring your world since 1965

REOTEMP's Bimetal Thermometers are reliable and accurate temperature sensors requiring no electricity or wiring. Back Connect Thermometers are ideal for local, eye-level temperature readings in most process applications. They can be recalibrated with a turn of the calibration screw on the back of the dial. A variety of options are available for your specific process needs.

Fillable · HiVis™ Dials · 1% Accuracy · Custom Logos

FEATURES / BENEFITS

- Made to ASME B40.3 Specifications
- Accuracy ± 1% Full Scale (ASME B40.3 Grade A)
- All Stainless Steel Construction
- Hermetically Sealed (ASME B40.3)
- Silicone Fillable for Vibration
- Standard and Custom Stem Lengths
- Standard External Reset for Calibration
- OEM Logo Dials/Custom Dials
- Five Year Warranty
- HiVis™ Dials Available

SPECIFICATIONS

ACCURACY: ± 1% Full Scale (ASME B40.3)
DIAL SIZE: 3", 4" or 5"
DIAL MATERIAL: Anodized aluminum with black marks on satin matte finish background; White & HiVis background available.
STEM LENGTH: 2" to 80"
STEM DIAMETER: 1/4" (std) ; 3/8" & 5/16" available
HEAD, BEZEL, MOUNTING BUSHING, STEMS: 300 Series SS, 316SS (optional)
OPERATING CONDITIONS: Head temperature should not exceed 200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% over-range or 800°F.
TEMPERATURE RANGES: See inside back cover for complete list of ranges.
CASE RATING: IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
LENS: Glass (std), Acrylic, Polycarbonate, Tempered Glass
IMMERSION: Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
MOUNTING CONNECTION: 1/2" NPT (std), 1/4" NPT, 3/4" NPT, Plain Hex Bushing, 1/2" BSPT, Sanitary Tri-Clamp
TEMPERATURE SENSING AREA: Last 2" to 4" of the stem

Standard Delivery 3-5 Days

Thermowell Recommended
(available through Reotemp)

Made in the USA

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Online Configurators
www.reotemp.com

HOW TO ORDER

AA — 025 — 1 — F23 — SF

Standard Model:

AA = 3" Dial w/ Reset
CC = 4" Dial w/ Reset
BB = 5" Dial w/ Reset

Non-Reset Model:

RR = 3" Dial w/o Reset
CN = 4" Dial w/o Reset
SS = 5" Dial w/o Reset

Stem Length:

025 = 2.5"
040 = 4"
060 = 6"
090 = 9"
120 = 12"
150 = 15"
180 = 18"
240 = 24"
300 = 30"
360 = 36"

Intermediate stem lengths available up to 80".

Connection:

1 = 1/2" NPT
4 = 1/4" NPT
5 = 3/4" NPT Adapter
X = Plain Unthreaded Hex Bushing
B = 1/2" BSPT
U = 1/2" NPT Union

Sanitary:

C = 1.5" Tri-Clamp
L = 2" Tri-Clamp
A = 2.5" Tri-Clamp
P = 3" Tri-Clamp
M = 3/4" Tri-Clamp

Temperature Range:

Common Ranges:

Fahrenheit Ranges	Celsius Ranges
F23 = -40°F to 160°F	**C23** = -40°C to 70°C
***F55** = 25°F to 125°F	***C55** = 0°C to 50°C
F43 = 0°F to 200°F	**C43** = 0°C to 100°C
F47 = 0°F to 250°F	**C47** = -20°C to 120°C
F63 = 50°F to 300°F	**C59** = 0°C to 150°C
F67 = 50°F to 500°F	**C67** = 0°C to 250°C
F69 = 50°F to 550°F	**C69** = 0°C to 300°C
F81 = 150°F to 750°F	**C73** = 0°C to 400°C
F85 = 200°F to 1000°F	**C85** = 100°C to 500°C

Dual °F/°C Ranges

D23 = -40°F to 160°F & -40°C to 70°C
***D55** = 25°F to 125°F & -5°C to 50°C
D43 = 0°F to 200°F & -10°C to 90°C
D47 = 0°F to 250°F & -20°C to 120°C
D63 = 50°F to 300°F & 10°C to 150°C
D67 = 50°F to 500°F & 10°C to 260°C
D69 = 50°F to 550°F & 10°C to 290°C
F81 = 150°F to 750°F & 70°C to 400°C
F85 = 200°F to 1000°F & 100°C to 500°C

* Not available in 2.5" stem.

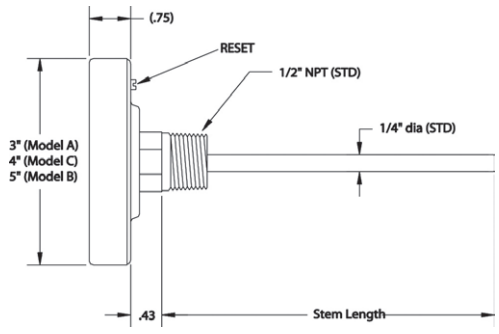
See inside back cover for complete list of ranges.

Accessories:

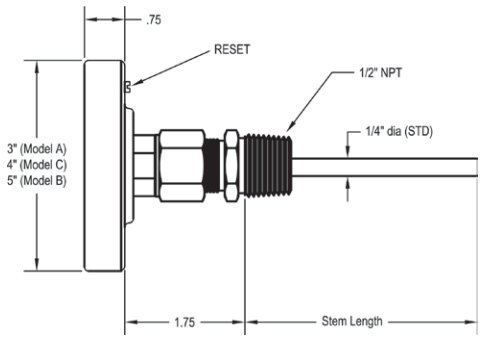
HV = Hi-Vis Dial
PS = Pointed Stem
SF = Silicone Fill (Max. Temp. 550°F)
SS = 316SS Stem
S3 = 3/8" diameter Stem
F5 = 5/16" diameter Stem
PC = Acrylic Window
PY = Polycarbonate Window
TG = Tempered Glass Window
MM = Max./Min. Pointer
HT = Heat Transfer Compound (2 oz., 1 lb container)
CC = Certificate of Conformance
C1 = 1 pt. Calibration Certificate
C3 = 3 pt. Calibration Certificate

For Thermowells, see pages 34-37.

Standard Dimensions



Fixed Union



*dimensions in inches