

SANITARY BIMETAL THERMOMETER

Reotemp's Sanitary Bimetal Thermometers are specially designed for direct insertion into sanitary process applications when a standard thermowell is not specified or the process environment is not exposed to pressure. Sanitary thermometers are ideal for the food, beverage and pharmaceutical industries.



Fillable



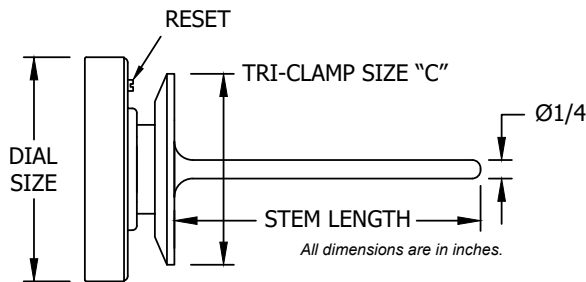
Dials



Accuracy



Custom Logo



Sanitary Flange Size	Diameter in Inches "C"
3/4"	.98"
1"	2"
1.5"	2"
2"	2.5"
2.5"	3"
3"	3.6"

FEATURES / BENEFITS

- Five Year Warranty
- Made in the USA
- 3-A Conformance Certificate Included
- Accuracy $\pm 1\%$ Full Scale. (ASME B40.3)
- Hermetically Sealed (ASME B40.3)
- Standard External Reset
- Tri-Clamp® Design for Fast Installation and Removal
- Silicone Fillable for Vibration

SPECIFICATIONS

Accuracy	$\pm 1\%$ Full Scale (ASME B40.3)
Dial Size	3", 4" or 5"
Dial Material	Black marks on satin matte aluminum finish, Hi-Vis™, or white dial
Stem Length	2" to 80"
Stem Diameter	1/4" (Standard), or 3/8"
Head, Bezel, Mounting Bushing	300 Series SS, or 316SS (Optional)
Stem & Tri-Clamp	316SS
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 (550°F if silicone filled).
Environmental Protection	IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
Lens	Polycarbonate(Standard), Glass, Acrylic, Laminated Safety Glass or 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	Sanitary Tri-Clamp®
Temperature Sensing Area	Last 2" to 4" of the stem

SANITARY BIMETAL THERMOMETER



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HOW TO ORDER: Choose options to build a part number. For example: **XR025CF23-SF**

XR			025			C			F23			-SF		
DIAL SIZE			STEM LENGTH			CONNECTION			TEMPERATURE RANGE			OPTIONS		
<i>Standard Model with Reset</i>												025 = 2.5" 040 = 4" 060 = 6" 090 = 9" 120 = 12" 150 = 15" 180 = 18" 240 = 24" 300 = 30" 360 = 36"		
Dial Size	3"	4"	5"	<i>Sanitary</i> C = 1.5" Tri-Clamp® L = 2" Tri-Clamp® A = 2.5" Tri-Clamp® P = 3" Tri-Clamp® M = 3/4" Tri-Clamp® Other sanitary flanges available.			<i>Fahrenheit Ranges</i> F23 = -40°F to 160°F F55 = 25°F to 125°F* F43 = 0°F to 200°F F47 = 0°F to 250°F F63 = 50°F to 300°F F67 = 50°F to 500°F F69 = 50°F to 550°F F81 = 150°F to 750°F F85 = 200°F to 1000°F			<i>General Options</i> -3H = 316 SS Head and Bezel -PS = Pointed Stem -S3 = 3/8" diameter Stem -SF = Silicone Filled -WD = White Dial -HV = Hi-Vis™ Dial -NL = No Logo Dial -CB = Color Bands -PI = Color Pie -CL = Custom Logo Dial				
Back Connect	AA	CC	BB	Note: Intermediate stem lengths available up to 80". <i>Millimeter Stem Lengths</i> M???? = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100			<i>Celsius Ranges</i> C23 = -40°C to 70°C C55 = 0°C to 50°C* C43 = 0°C to 100°C C47 = -20°C to 120°C C59 = 0°C to 150°C C67 = 0°C to 250°C C69 = 0°C to 300°C C73 = 0°C to 400°C C85 = 100°C to 500°C			<i>Window Options (Standard is Glass)</i> -MM = Min-Max Pointer (Plastic Lens) -PC = Acrylic Window -PY = Polycarbonate Window -TG = Tempered Glass Window -SG = Laminated Safety Glass				
Adjustable Angle	LL	MM	JJ	<i>Dual Scale Ranges</i> 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 D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C			<i>Calibration Cert. Options</i> -R1 = One Point Calibration Cert (Reotemp Chooses Points) -R3 = Three Point Calibration Cert (Reotemp Chooses Points) -C1 = One Point Calibration Cert (Customer Chooses Points) -C3 = Three Point Calibration Cert (Customer Chooses Points)							
Bottom Connect	XR	YY	VR	*Not available in 2.5" stem. For Additional Ranges See Master Range Code Sheet on Page 221			<i>Tags and Accessories</i> -TS = Tag, Stainless -TP = Tag, Paper -AS = Adapts Bimet to 1-1/4-18 industrial socket -HT = Heat Transfer Compound							
<i>Non-Reset Model</i>												For Additional Options See Page 220 For Thermowells See Pages 234-240		
Dial Size	3"	4"	5"											
Back Connect	RR	CN	SS											
Bottom Connect	XX	YN	VN											

Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

BIMETAL OPTION CODES

Part #	Description	Industrial AA, RR, CC, CN, BB, SS, XR, XX, YY, YN, VR, VV, LL, MM, JJ	Small Dial OEM QQ, GG, HH	Digital DT, DTR, BT	Dual Mode Thermometer DMT
CASE FILL OPTIONS					
-SF	Silicone Filled Case	✓	N/A	N/A	✓
LENS OPTIONS					
-PC	Acrylic Window	✓	✓	N/A	✓
-PY	Polycarbonate Window	✓	✓	STD	✓
-TG	Tempered Safety Glass Lens	✓	N/A	N/A	✓
-SG	Laminated Safety Glass Lens	✓	N/A	N/A	✓
-GL	Plain Glass	STD	STD	✓	STD
STEM OPTIONS					
-PS	Pointed Tip	✓	✓	✓	N/A
-SS	316 Stainless Steel Stem	✓	✓	✓	✓
-F5	5/16" Diameter Stem (Not Available with 316SS Stem)	✓	✓	✓	N/A
-S3	3/8" Diameter Stem	✓	✓	✓	✓
-TF	Teflon Coating (Stem Only)	✓	✓	✓	✓
DIAL OPTIONS					
-CL	Custom Logo Dial	✓	✓	✓	✓
-HV	Hi-Vis Dial	✓	MQ	N/A	✓
-CB	Color Band	✓	MQ	N/A	✓
-PI	Color Pie	✓	MQ	N/A	✓
-WD	White Dial (Standard Ranges Only)	✓	✓	✓	✓
-MM	Min/Max Pointer	✓	N/A	N/A	✓
NL	No Logo	✓	✓	✓	✓
TAG OPTION					
-TS	Stainless Steel Tag (1-10 Characters)	✓	✓	✓	✓
-TP	Paper Tag	✓	✓	✓	✓
CERTIFICATION OPTIONS					
-R1	1pt. Calibration Certification (Reotemp Chooses the Point)	✓	✓	✓	✓
-R3	3 pt. Calibration Certification (Reotemp Chooses the Points)	✓	✓	✓	✓
-C1	1 pt. Calibration Certification (Customer Chooses the Point)	✓	✓	✓	✓
-C3	3 pt. Calibration Certification (Customer Chooses the Points)	✓	✓	✓	✓
-CS	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓
-CC	Certificate of Conformance	✓	✓	✓	✓
OTHER					
-3H	316 Stainless Steel Head & Bezel	✓	N/A	STD	✓
-HT	Heat Transfer Compound	✓	✓	✓	✓
-CH	Spring Handle (T-27)	✓	✓	✓	N/A
-AS	Allows Bimet to Fit 1-1/4-18 xxowell	✓	✓	✓	✓

✓	Indicates that the option is available with the model.
STD	Indicates standard options with no additional cost.

N/A	Indicates the option is not available with this model.
MQ	Minimum order quantity applies.

BIMETAL RANGE CODES

FAHRENHEIT RANGES		
Code	°F Range	Div.
F03	-100/100	2
F05	-100/200	2
F07	-80/120	2
F11	-70/150	2
F19	-50/300	5
F21 [†]	-40/120	2
F23	-40/160	2
F25	-40/180	2
F26	-40/200	2
F27 [‡]	-40/70	1
F31 [†]	-20/120	2
F33	-20/425	5
F35 [‡]	0/100	1
F37 [†]	0/140	2
F39 [†]	0/150	1
F43	0/200	2
F45	0/220	2
F47	0/250	2
F49	0/300	2
F50	0/500	5
F51	0/600	10
F53	20/240	2
F55 [‡]	25/125	1
F57 [‡]	30/130	1
F63	50/300	2
F65	50/400	5
F67	50/500	5
F69	50/550	5
F71	50/650	10
F73	50/750	10
F78	100/600	5
F79	100/800	10
F81	150/750	10
F82	200/700	20
F83	200/300	2
F84	100/900	5
F85	200/1000	10
F89	250/600	5
F91	300/400	2

CELSIUS RANGES		
Code	°C Range	Div.
C01	-80/220	2
C03	-70/70	2
C06	-70/30	1
C07	-50/50	1
C08	-60/120	2
C09 [‡]	-50/0	1
C15	-50/100	2
C17	-50/200	2
C19	-40/160	2
C20	-60/300	5
C23	-40/70	1
C24	-40/350	5
C27 [‡]	-30/30	1
C31 [†]	-20/40	1
C32	-20/60	
C33	-20/220	2
C34	-20/320	5
C35 [‡]	0/30	.5
C37 [‡]	0/60	1
C38 [†]	0/80	
C43	0/100	1
C47	-20/120	2
C53	-10/110	1
C55 [‡]	0/50	.5
C56	0/120	1
C59	0/150	1
C60	50/150	
C61	0/160	2
C63	10/150	2
C65	0/200	2
C67	0/250	2
C69	0/300	2
C71	0/300	5
C73	0/400	5
C74	0/450	5
C75	0/500	5
C79	50/450	5
C81	50/400	5
C85	100/500	5
C87	100/550	5

DUAL RANGES	
Code	°F & °C Range
D01	-150/400 & 100/200
D03	-100/100 & -70/40
D07	-80/120 & -60/50
D15	-50/210 & -50/100
D19	-50/300 & -40/160
D23	-40/160 & -40/70
D37 [†]	0/140 & -15/60
D39 [†]	0/150 & -20/65
D41 [†]	0/160 & -15/70
D43	0/200 & -10/90
D45	0/220 & -10/100
D47	0/250 & -20/120
D49	0/300 & -10/150
D53	20/240 & -10/115
D55 [‡]	25/125 & -5/50
D63	50/300 & 10/150
D65	50/400 & 10/200
D67	50/500 & 10/260
D69	50/550 & 10/290
D77	100/450 & 40/230
D79	100/800 & 40/400
D81	150/750 & 70/400
D85	200/1000 & 100/500
D87	200/1000 & 100/550

‡ Minimum stem length is 4".

† For 2.5" stem, all bottom connect and all-angle models require adapter P/N AD22S.