

CI Bimetal Thermometer

FEATURES

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
- Maxivision® dial for precise readings (minimize parallax reading errors)
- Silicone dampened coil for reduction of pointer flutter on high vibration applications and provides improved response times
- Customized dial printing

TYPICAL USES

- General Industrial
- HVAC
- Equipment Skids
- Pharmaceutical / Biotech
- Food and Beverages



CI Bimetal
2", 3", 5" dial sizes



SPECIFICATIONS

Accuracy:	±1% of span ASME B40.200 (B40.3 Grade A)	
Stem Length:	2½" to 24"	
Dial Sizes:	2", 3", 5"	
Dial Style:	Maxivision®, black figures on white background	
Overtemperature Limits:	Top of Range °F up to 250 251-550 551-1,000	Max. Over Temperature 100% of span 50% of span 800°F ⁽¹⁾

⁽¹⁾ Satisfactory for continuous service up to 800°F (425°C).
 Can be used for intermittent service from 800 to 1,000°F (425 to 500°C). Use Ashcroft Duratemp® thermometers for ranges above and below those listed above.

Process Connection:	Plain, Pointed Stem, ¼ NPT, ½ NPT
Stem diameter:	0.250", .375"
Case & Stem:	304 SS, Hermetically sealed
Process Connection Location:	2": Rear 3", 5": Lower, rear
Pointer:	Black
Window:	Glass, Acrylic, Safety Glass
Approvals:	RoHS

CAUTION

Thermowells should be used on all pressurized applications over 15 psi, to protect the thermometer from corrosion or physical damage, and to facilitate removal of the thermometer without disturbing the process.

KEY BENEFITS

- Tamper resistant case
- NEMA 4X/IP66 protection
- 5-year limited warranty
- All welded stainless steel construction

MIN/MAX TEMPERATURE LIMITS

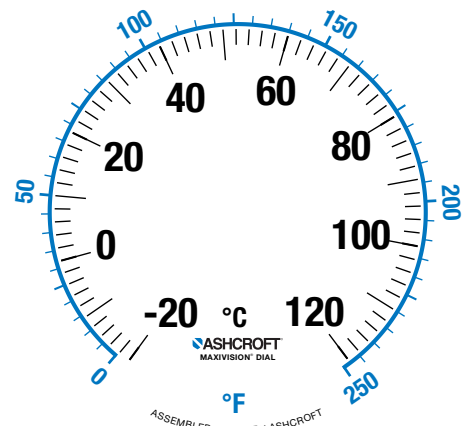
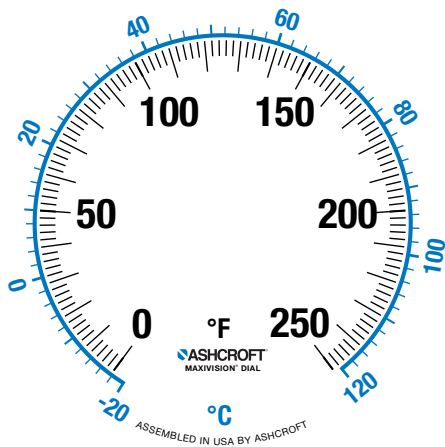
Version	Ambient
Dry	-40°F to 200°F (-40°C to 93°C)

CI Bimetal Thermometer

ORDERING CODE	Example:	30CI	60	R	060	XSG	0/200F
Dial Size and Model							
20CI - 2" Tamper resistant bimetal							
30CI - 3" Tamper resistant bimetal		30CI					
50CI - 5" Tamper resistant bimetal							
Stem and Connection							
40 - Plain - no connection							
50 - Pointed stem - no connection (2" case only)							
60 - 1/2 Fixed NPT for 3" & 5" but 1/4 fixed NPT for 2"			60				
Connection Location							
R - Rear connection				R			
L - Lower connection (Not available on 2" case)							
Stem Length (Consult factory for custom or longer stem length)							
025 - 2 1/2"							
040 - 4"							
060 - 6"					060		
090 - 9"							
120 - 12"							
150 - 15"							
180 - 18"							
240 - 24"							
Options - (if choosing an option(s) must include an "X")							
CS - Dual scale						X_ _	
DM - Dial marking							
NH - Stainless steel tag							
PD - Plastic window							
SG - Shatterproof glass						SG	
C4 - Individual calibration certification							
S1 - Silicone free							
3B - 3/8" stem diameter with 1/2 NPT							
02 - 1/4 NPT (only available on rear connection)							
Temperature Ranges (see table on page 3)							
0/200°F							0/200°F

Data Sheet

CI Bimetal Thermometer



Fahrenheit Inner Range			
Inner °F	Outer °C	Restrictions	
-100/100	-70/40		
-80/120	-60/50		
-50/200	-40/93		
-50/250	-40/120		
Can be liquid filled	-40/120	-40/50	
	-40/160	-40/70	
	-20/120	-30/50	
	0/100	-20/40	
	0/150	-20/65	
	0/200	-20/93	
	0/250	-20/120	
	0/300	-20/150	
	0/350	-20/170	
	0/500	-20/260	
	20/120	-5/50	4" Min for Everyangle™ and Lowers only
	30/130	0/55	4" Min for Everyangle™ and Lowers only
	30/240	0/115	
	50/300	10/150	
	50/400	10/200	
	50/550	10/290	
	0/700	-20/370	4" minimum
100/800	50/430	4" minimum	
150/750	65/395	4" minimum	
200/700	100/370	4" minimum	
200/1000	100/550	4" minimum Satisfactory continuous service from 800° F or 426° C Intermittent service from 800° to 1000° F or 425° C to 500° C	

Celsius Inner Range			
Inner °C	Outer °F	Restrictions	
-50/50	-50/120		
-50/180	-50/350		
Can be Liquid filled	-40/100	-40/210	
	-40/160	-40/320	
	-30/70	-20/160	
	-20/180	0/350	
	-20/120	0/250	
	-10/50	20/120	
	-10/110	20/230	
	0/60	30/140	
	0/100	30/210	
	0/120	30/250	
	0/150	30/300	
	0/200	30/400	
	0/250	30/480	
	0/300	30/570	
	10/150	50/300	
	0/400	30/750	4" minimum
	0/500	30/390	4" minimum
50/450	120/840	4" minimum Satisfactory continuous service from 800° F or 426° C Intermittent service from 800° to 1000° F or 425° C to 500° C	
100/500	220/930	4" minimum Satisfactory continuous service from 800° F or 426° C Intermittent service from 800° to 1000° F or 425° C to 500° C	

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size (Inches)	Process Connection Locations	A	B	C	D	E	S	NPT	Hex.	Weight (oz) ⁽¹⁾ S - 2 1/2"
2	Rear (Plain)	2 ³ / ₃₂ [53]	3/8 [10]	3/8 [10]			(2)		1 ¹ / ₁₆	4 1/2
2	Rear (Plain, pointed stem)	2 ³ / ₃₂ [53]	3/8 [10]	3/8 [10]			(2)		1 ¹ / ₁₆	4 1/2
2	Rear (Threaded)	2 ³ / ₃₂ [53]	3/8 [10]	3/8 [10]			(2)	1/4	1 ¹ / ₁₆	4 1/2
3	Rear	3 ⁵ / ₃₂ [80]	1 ⁹ / ₃₂ [15]	3/8 [10]			(2)	1/2	7/8	7
3	Lower	3 ⁵ / ₃₂ [80]	1 ²⁷ / ₃₂ [47]		2 ⁵ / ₈ [67]	1/4 [6]	(2)	1/2	7/8	11
5	Rear	5 ¹ / ₃₂ [128]	2 ³ / ₃₂ [18]	3/8 [10]			(2)	1/2	7/8	16
5	Lower	5 ¹ / ₃₂ [128]	1 ¹⁵ / ₁₆ [49]		3 ⁵ / ₈ [92]	1/4 [6]	(2)	1/2	7/8	26

NOTES:

1. Add 1 oz. for every 2" inches of stem length
2. "S" dimensions are 2 1/2, 4, 6, 9, 12, 15, 18 and 24" (STD.). Stem diameter is 1/4" (STD.)

