ASHCROFT® Trust the shield.®

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: $\pm 1\%$ 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 Max. Over Temperature up to 250 100% of span 251-550 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 °F to 1,000 °F (425 °C 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", 0.375"

Case & Stem: 304 Stainless steel, Hermetically sealed

Process Connection 2": Rear Location: 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)						

All specifications are subject to change without notice. All sales subject to standard terms and conditions.

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Data Sheet

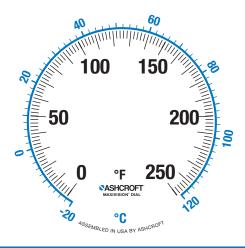


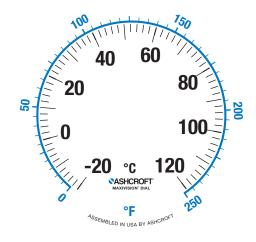
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ORDERING CODE	Example:	30CI	60	R	060	XSG	0/200F
Dial Size and Model							
20CI - 2" Tamper resistant bimetal							
30CI - 3" Tamper resistant bimetal		30CI					
50CI - 5" Tamper resistant bimetal							
Stem and Connection							
40 - Plain - no connection				_			
50 - Pointed stem - no connection (2" case only)				_			
60 - ½ Fixed NPT for 3" & 5" but ¼ 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 - 2½″							
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")						X	
CS - Dual scale							
DM - Dial marking							
NH - Stainless steel tag							
PD - Plastic window							
SG - Shatterproof glass						SG	
C4 - <u>Traceable calibration certificate</u>							
S1 - Silicone free							
3B - ¾" stem diameter with ½ NPT							
02 - 1/4 NPT (only available on rear connection)							
Temperature Ranges (see table on page 3)							

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Fahrenheit Inner Range								
Inner °F	Outer °C	Restrictions						
-100/100	-70/40							
-80/120	-60/50							
-50/200	-40/93							
-50/250	-40/120							
-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							
0/400	-20/200							
0/500	-20/260							
20/120	-5/50							
30/130	0/55							
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	$4^{\prime\prime}$ minimum Satisfactory continuous service from 800 °F or 426 °C Intermittent service from 800 °F 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							
-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	4" minimum						
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 °F 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 °F to 1000 °F or 425 °C to 500 °C						

Data Sheet



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	Single Scale Ranges								
	Restrictions	۰F	°C	Restrictions					
		-100/100							
		-80/120							
		-50/200	-50/50						
		-50/250	-50/180						
		-40/120	-40/100						
		-40/160	-40/160						
		-20/120	-30/70						
	4" Min for Lowers only	0/100	-20/180						
		0/150	-10/50						
_		0/200	-10/110						
illec		0/250	0/50						
quid		0/300	0/60	4" minimum					
e Li		0/400	_						
Can be Liquid filled		0/500	0/100						
	4" Min for Lowers only	20/120	0/120						
	4" Min for Lowers only	30/130	0/150						
		30/240	0/200						
		50/300	0/250						
		50/400	0/300						
		50/550	10/150						
	4" minimum	0/700	0/400	4" minimum					
	4" minimum	100/800	0/500	4" minimum					
	4" minimum	150/750	50/450	4" minimum Satisfactory continuous service from 800 °F or 426 °C. Intermittent service from 800 °F to 1,000 °F or 425 °C to 500 °C					
	4" minimum	200/700	100/500	4" minimum Satisfactory continuous service from 800 °F or 426 °C. Intermittent service from 800 °F to 1,000 °F or 425 °C to 500 °C					
	4" minimum Satisfactory continuous service from 800 °F or 426 °C. Intermittent service from 800 °F to 1,000 °F or 425 °C to 500 °C	200/1000							



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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size (Inches)	Process Connection Locations	Α	В	С	D	Е	s	NPT	Hex.	Weight (oz) ⁽¹⁾ S - 2½″
2	Rear (Plain)	23/32 [53]	³ / ₈ [10]	³ / ₈ [10]			(2)		11/16	41/2
2	Rear (Plain, pointed stem)	23/32 [53]	3/8 [10]	³⁄8 [10]			(2)		11/16	41/2
2	Rear (Threaded)	23/32 [53]	³ / ₈ [10]	³⁄8 [10]			(2)	1/4	11/16	41/2
3	Rear	35/32 [80]	¹⁹ / ₃₂ [15]	³⁄8 [10]			(2)	1/2	7/8	7
3	Lower	35/32 [80]	1 ²⁷ / ₃₂ [47]		25/8 [67]	¹ / ₄ [6]	(2)	1/2	7/8	11
5	Rear	5½ [128]	²³ / ₃₂ [18]	³⁄8 [10]			(2)	1/2	7/8	16
5	Lower	5½ [128]	1 ¹⁵ ⁄ ₁₆ [49]		35/8 [92]	½ [6]	(2)	1/2	7/8	26

NOTES:

- 1. Add 1 oz. for every 2" inches of stem length
- 2. "S" dimensions are 21/2, 4, 6, 9, 12, 15, 18 and 24" (STD.). Stem diameter is 1/4" (STD.)
- 3. Stem tolerance is $\pm 0.125^{\circ}$

