

### **FEATURES**

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
- Maxivision<sup>®</sup> 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



**Cl Bimetal** 2", 3", 5" dial sizes



#### **SPECIFICATIONS** Accuracy: ±1% of span ASME B40.200 (B40.3 Grade A) Stem Length: 21/2" to 24" **Dial Sizes:** 2", 3", 5" Dial Style: Maxivision®, black figures on white background Overtemperature Top of Range °F Max. Over Temperature Limits: up to 250 100% of span 251-550 50% of span 800 °F<sup>(1)</sup> 551-1,000 $^{(1)}$ 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, 1/4 NPT, 1/2 NPT Stem diameter: 0.250", 0.375" Case & Stem: 304 Stainless steel, Hermetically sealed **Process Connection** 2": Rear 3", 5": lower, rear Location: 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.

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#### **KEY BENEFITS**

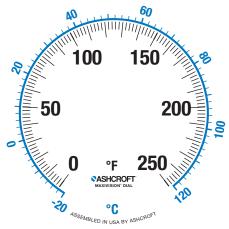
- Tamper resistant case
- NEMA 4X/IP66 protection
- 5-year limited warranty
- All welded stainless steel construction

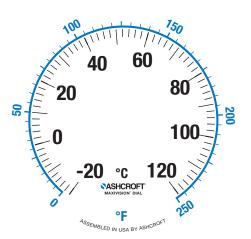
MIN/MAX TEMPERATURE LIMITS							
Version	Ambient						
Dry	-40 °F to 200 °F (-40 °C to 93 °C)						



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 (not available on lower 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 - Traceable calibration certificate							
S1 - Silicone free							
3B - ¾ stem diameter with ½ NPT							
02 - ¼ NPT (only available on rear connection)							
Temperature Ranges (see table on page 3)							
0/200 °F							0/200 °F







	Fahrenhei	t Inner Range	Celsius Inner Range					
Inner °F	Outer °C	Restrictions	Inner °C	Outer °F	Restrictions			
-100/100	-70/40		-50/50	-50/120				
-80/120	-60/50		-50/180	-50/350				
-50/200	-40/93		-40/100	-40/210				
-50/250	-40/120		-40/160	-40/320				
-40/120	-40/50		-30/70	-20/160				
-40/160	-40/70		-20/180	0/350				
-20/120	-30/50		-20/120	0/250				
0/100	-20/40	4" minimum for lower	-10/50	20/120				
0/150	-20/65	4" minimum for lower	-10/110	20/230				
0/160	-20/70	4" minimum for lower	0/60	30/140	4″ minimum			
0/200	-20/93		0/100	30/210				
0/250	-20/120		0/120	30/250				
0/300	-20/150		0/150	30/300				
0/350	-20/170		0/200	30/400				
0/400	-20/200		0/250	30/480				
0/500	-20/260		0/300	30/570				
20/120	-5/50		10/150	50/300				
30/130	0/55		0/400	30/750	4″ minimum			
30/240	0/115		0/500	30/390	4″ minimum			
50/300	10/150		50/450	120/840	4″ minimum			
50/400	10/200				Satisfactory continuous service from 800 °F or 426 °C			
50/550	10/290				Intermittent service from 800 °F to 1000 °			
0/700	-20/370	4″ minimum			or 425 °C to 500 °C			
100/800	50/430	4″ minimum	100/500	220/930	4" minimum Satisfactory continuous service from 800 °F			
150/750	65/395	4″ minimum			or 426 °C			
200/700	100/370	4″ minimum			Intermittent service from 800 °F to 1000 ° or 425 °C to 500 °C			
200/1000	100/550	4 <sup>°°</sup> minimum Satisfactory continuous service from 800 °F or 426 °C Intermittent service from 800 °F to 1000 ° F or 425 °C to 500 °C		1				

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Single Scale Ranges									
	Restrictions	۴	°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" minimum for lowers only	0/100	-20/180						
		0/150	-10/50						
		0/160	-	4" minimum for lower					
led		0/200	-10/110						
Can be Liquid filled		0/250	0/50						
Liqu		0/300	0/60	4″ minimum					
n be		0/400	—						
Ca		0/500	0/100						
	4" minimum for lowers only	20/120	0/120						
	4" minimum 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							



### **DIMENSIONS** in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size (Inches)	Process Connection Locations	Α	В	С	D	E	S	NPT	Hex.	Weight (oz) <sup>(1)</sup> S - 2½″
2	Rear (Plain)	2 <sup>3</sup> ⁄32 [53]	¾ [10]	3% [10]			(2)		<sup>11</sup> / <sub>16</sub>	41⁄2
2	Rear (Plain, pointed stem)	2 <sup>3</sup> ⁄32 [53]	¾ [10]	3⁄8 [10]			(2)		<sup>11</sup> /16	41⁄2
2	Rear (Threaded)	2¾2 [53]	¾ [10]	3% [10]			(2)	1⁄4	<sup>11</sup> /16	41⁄2
3	Rear	35⁄32 [80]	<sup>19</sup> / <sub>32</sub> [15]	¾ [10]			(2)	1/2	7/8	7
3	Lower	35⁄32 [80]	1 <sup>27</sup> ⁄32 [47]		25⁄% [67]	1⁄4 [6]	(2)	1/2	7/8	11
5	Rear	5 <sup>1</sup> ⁄32 [128]	<sup>23</sup> ⁄ <sub>32</sub> [18]	¾ [10]			(2)	1/2	7/8	16
5	Lower	5 <sup>1</sup> ⁄32 [128]	1 <sup>15</sup> ⁄16 [49]		35% [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 21/2, 4, 6, 9, 12, 15, 18 and 24" (STD.). Stem diameter is 1/4" (STD.)

3. Stem tolerance is  $\pm 0.250^{"}$ 

