

# **CI Series Bimetal Thermometers**



### **FEATURES**

- 1% full span accuracy ASME B40.200 (ASME B40.3 Grade A)
- Maximum ambient temp. is 200°F (94°C)
- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze-up.
- Tamper resistant.
- Maxivison<sup>®</sup> dial allows readability from any angle without parallax error.
- Silicone coil dampening (up to 400°F) provides vibration dampening and improves response time.
- All-welded stainless steel construction
- Heavy-Duty glass lens
- Protection NEMA 4X/IP66
- Five year limited warranty



## **SPECIFICATIONS**

<b>Ashcroft</b> ®	
Series:	CI
Dial Sizes:	2,″3,″5″
Stem Length:	21/2"-24" (1)
	304 stainless steel, hermetically
	sealed
Stem Dia:	.250″
Window:	Heavy-duty glass, plastic or shatter-
	proof glass optional
Dial:	Maxivision <sup>®</sup> , black figures on white
	background
Pointer:	Black
Connection:	Plain, pointed plain, ¼ NPT, ½ NPT
Connection	
Location:	Lower, Rear
Ranges:	-80/120°F-200/1000°F
	-50/50°C-100/500°C
Options:	Code Description
-	C4 Individual calibration cert.
	XCS Dual scale <sup>(2)</sup>
	XDM Dial marking
	XNH Stainless steel tag
	XNN Paper tag XPD Plastic window
	<b>XSG</b> Shatter proof glass
	<b>X3B</b> %" stem dia. with ½ NPT
	<b>X02</b> <sup>1</sup> / <sub>4</sub> NPT when <sup>1</sup> / <sub>2</sub> NPT is standard <sup>(3)</sup>
	<b>XS1</b> Silicone free
(1) Special or lor	ger length available, consult factory

(1)(2) Dual scale avilable with 3" and 5" case only
(3) Only available on rear connection

Thermowells must be used on all pressure or velocity applications, to protect the stem of thermometer from corrosion and physical damage, and to facilitate removal of the thermometer without disturbing the process. Maximum ambient temperature is 200°F (95°C).

HOW TO ORDER						
	30	CI 6	0 R	040	0/250°F	XNH
Dial Size: 3" Code 30						
Case Style: CI						
Stem Connection: 1/2 NPT Cod	le 60					
Stem Location: Rear Code R						
Stem Length: 4" Code 040						
Range: Code 0/250°F						
Options: Stainless steel tag						

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CI	CI Series selection table																
Case	Size			Stem		Stem Lengths Available		Temperature Range									
Dial	Code	Style Code	Conn.	Code	Location	Code	"S" Length (inches)	Code	°F* Fahrenheit	°∕ Div.	Fig. Inter.	°C Celsius	°∕ Div.	Fig. Inter.			
			Plain	40					-80/120	2	20	-50/50	1	10			
2″	20		Pointed	50	Rear	R			-20/120††			-20/120	2	20			
			1/4 NPT	60			2½	025	30/130††	1	10	0/50††	1	5			
3″	30	CI	⅓ NPT	60	Rear	R	4 6	040 060	0/200	2	20	0/100	1	10			
5	50	01	72 INF 1	00	Lower		9	090	0/250	2	50	10/150	2	20			
						Lower	Lower	Lower	L	12	120	50/300		50	0/200		
							15	150	50/400			0/300††					
					Rear	R	18	180	50/550	5	50	50/450**†	5	50			
5″	50		½ NPT	60			24	240	200/700†			100/500**†					
		Lower				100/800†											
					20100	-			200/1000**†	10	100						

## **CI Dimensions**

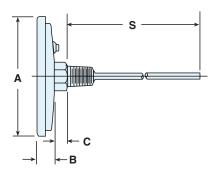
Case	Dial	Connection									Weight in ounces <sup>(3)</sup>
Series	Size	Location	А	В	С	D	E	S	NPT	Hex	S – 2½″
						-		_(2)			-
CI	2″	Rear	<b>2</b> <sup>3</sup> / <sub>32</sub>	3%	3%	-	-	_(2)	-	11/16	4½
		(Plain)	(53)	(10)	(8)						
CI	2″	Rear (Plain,	23/32	36	5⁄16	-	-	_(2)	-	11/16	4½
		pointed stem)	(53)	(10)	(8)						
CI	2″	Rear	<b>2</b> 3/32	3⁄8	36	-	-	_(2)	1/4	11/16	4½
		(Threaded)	(53)	(10)	(8)						
CI	3″	Rear	35/32	19/32	36	-	-	_(2)	1/2	7/8	7
			(80)	(15)	(8)						
CI	3″	Lower	35/32	1 <sup>27</sup> /32	-	2%	1/4	_(2)	1/2	7/8	11
			(80)	(47)		(67)	(6)				
CI	5″	Rear	51/32	<sup>23</sup> /32	36	-	-	_(2)	1/2	7/8	16
			(128)	(18)	(8)						
CI	5″	Lower	51/32	<b>1</b> <sup>15</sup> /16	-	3%	1/4	_(2)	1/2	7/8	26
			(128)	(49)		(92)	(6)				

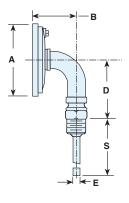
#### NOTES:

1. Figures in parenthesis ( ) are in millimeters. All other dimensions are in inches.

2. Standard "S" dimensions are 2%, 4, 6, 9, 12, 15, 18 and 24 inches. Standard stem diameter is ¼ inch. 3. Add 1 oz. for every 2 inches of stem length.

### DIMENSIONS





Dual scales are available in 3" and 5"

dial	sizes	in	the	following	ranges:

dial sizes in the following ranges:							
Inner		Outer					
-80/120°F	and	–60/50°C					
-40/120°F	and	-40/50°C					
-40/160°F	and	-40/70°C					
–20/120°F	and	-30/50°C††					
0/200°F	and	–20/90°C					
0/250°F	and	-20/120°C					
30/130°F	and	0/55°C††					
50/300°F	and	10/150°C					
50/400°F	and	10/200°C					
50/550°F	and	10/290°C					
100/800°F	and	50/400°C†					
200/700°F	and	100/370°C†					
200/1000°F	and	100/550°C**†					

Overtemperature limits						
Top of Range °F	Maximum					
	Over Temperatu $\Omega\Omega$					
up to 250	100% of span					
251/550	50% of span					
551/1000	800°F **					

\*Dual scale ranges available for all standard °F ranges (3" and 5"

 \*\*Satisfactory for continuous service up to 800°F or 425°C. Can be used for intermittent service from 800 to 1000°F, or 425 to 500°C. Use Ashcroft Duratemp® thermometers for ranges above and below those listed above.

†Minimum stem length for these ranges is 4". ††Minimum stem length for lower connection is 4".

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信德迈科技(北京)有限公司 CNMEC Technology Company \*Tel: 010-8428 2935 | \* Fax: 010-8428 8762 \*Email: sales@cnmec.biz | \* http://www.cnmec.biz