

## **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® 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**

Ashcroft®

Series: CI

**Dial Sizes:** 2,"3,"5" **Stem Length:** 2½"-24" (1)

Case & Stem: 304 stainless steel, hermetically

sealed

Stem Dia: .250"

Window: Heavy-duty glass, plastic or shatter-

proof glass optional

Dial: Maxivision®, black figures on white

background

Pointer: Black
Connection: Plain.

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.

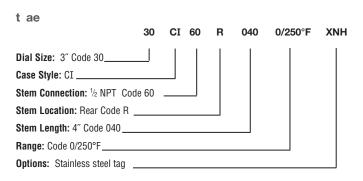
XCS Dual scale<sup>(2)</sup>
XDM Dial marking
XNH Stainless steel tag
XNN Paper tag
XPD Plastic window
XSG Shatter proof glass
XSG Shatter proof glass

**X3B** %" stem dia. with ½ NPT **X02** ¼ NPT when ½ NPT is standard<sup>(3)</sup>

XS1 Silicone free

- (1) Special or longer length available, consult factory
- (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).





# **CI Series Bimetal Thermometers**

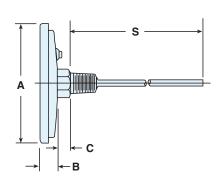
CI Series selection table															
Case	Size		Stem			Stem Lengths Available			Temperature Range						
Dial	Code	Style Code	Conn.	Code	Location	Code	"S" Length (inches)	Code	°F* Fahrenheit	% Div.	Fig. Inter.	°C Celsius	% Div.	Fig. Inter.	
			Plain	40					-80/120	2	20	-50/50	1	10	
2″	20		Pointed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

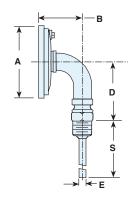
CI D	ime	nsions									
0000	Dial	Commontion									Weight in ounces <sup>(3)</sup>
Case	Dial	Connection		_	_	_	_	_			
Series	Size	Location	Α	В	С	D	E	S	NPT	Hex	S – 2½"
CI	2″	Rear	23/32	%	%	-	-	_(2)	-	11/16	4½
		(Plain)	(53)	(10)	(8)						
CI	2″	Rear (Plain,	23/32	%	5∕16	-	-	_(2)	-	11/16	4½
pointed stem)		(53)	(10)	(8)							
CI	2″	Rear	23/32	%	%	-	-	_(2)	1/4	11/16	4½
		(Threaded)	(53)	(10)	(8)						
CI	3″	Rear	35/32	19/32	¾	-	-	_(2)	1/2	7∕8	7
			(80)	(15)	(8)						
CI	3″	Lower	35/32	1 <sup>27</sup> / <sub>32</sub>	-	2%	1/4	_(2)	1/2	7∕8	11
			(80)	(47)		(67)	(6)				
CI	5″	Rear	51/32	23/32	¾	-	-	(2)	1/2	7∕8	16
			(128)	(18)	(8)						
CI	5″	Lower	51/32	<b>1</b> 15/16	-	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 % inch.
- 3. Add 1 oz. for every 2 inches of stem length.

## **DIMENSIONS**





## CI Series dual scale ranges

Dual scales are available in 3" and 5" 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 Temperature						
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".