

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.
- Maxivision® 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 IP 65
- 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, 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 ⁽²⁾
	XDM Dial marking
	XNH Stainless steel tag
	XNN Paper tag
	XPD Plastic window
	XSG Shatter proof glass
	X3B ⅜" stem dia. with ½ NPT
	XQ2 ¼ NPT when ½ NPT is standard ⁽³⁾
	XS1 Silicone free

- (1) Special or longer length available, consult factory
 (2) Dual scale available 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 60 R 040 0/250°F XNH

Dial Size: 3" Code 30	_____
Case Style: CI	_____
Stem Connection: ½ NPT Code 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 Series selection table																			
Case	Size	Dial Code	Style Code	Stem			Stem Lengths Available "S"			Temperature Range									
				Conn.	Code	Location	Code	Length (inches)	Code	°F* Fahrenheit	% Div.	Fig. Inter.	°C Celsius	% Div.	Fig. Inter.				
2"	20	CI	Plain	40	Rear	R	2½	025	-80/120	2	20	-50/50	1	10					
			Pointed	50					-20/120††			-20/120			2	20			
			¼ NPT	60					30/130††			0/50††			1	5			
3"	30	CI	¼ NPT	60	Rear	R	4	040	0/200	2	20	0/100	1	10					
									Lower			L			6	060	0/250	50	10/150
																	12		120
			Lower	L	9	090	0/250	5	50	0/300††									
							15			150	50/400	50/450**††							
							18			180	50/550	100/500***†							
5"	50	CI	¼ NPT	60	Rear	R	24	240	200/700†	10	100	100/800†	5	50					
									Lower			L			100/800†	200/1000**†			
															200/1000**†	200/1000**†			

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" case only)

**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".

CI Dimensions

Case Series	Dial Size	Connection Location	A	B	C	D	E	S	NPT	Hex	Weight in ounces ⁽³⁾
											S - 2½"
CI	2"	Rear (Plain)	2½ (53)	¾ (10)	¾ (8)	-	-	-(2)	-	1½/16	4½
CI	2"	Rear (Plain, pointed stem)	2½ (53)	¾ (10)	¾ (8)	-	-	-(2)	-	1½/16	4½
CI	2"	Rear (Threaded)	2½ (53)	¾ (10)	¾ (8)	-	-	-(2)	¼	1½/16	4½
CI	3"	Rear	3½ (80)	1½ (15)	¾ (8)	-	-	-(2)	½	7/8	7
CI	3"	Lower	3½ (80)	1 7/32 (47)	-	2½ (67)	¼ (6)	-(2)	½	7/8	11
CI	5"	Rear	5½ (128)	2½ (18)	¾ (8)	-	-	-(2)	½	7/8	16
CI	5"	Lower	5½ (128)	1 15/16 (49)	-	3½ (92)	¼ (6)	-(2)	½	7/8	26

NOTES:

- Figures in parenthesis () are in millimeters. All other dimensions are in inches.
- Standard "S" dimensions are 2½, 4, 6, 9, 12, 15, 18 and 24 inches. Standard stem diameter is ¼ inch.
- Add 1 oz. for every 2 inches of stem length.

DIMENSIONS

