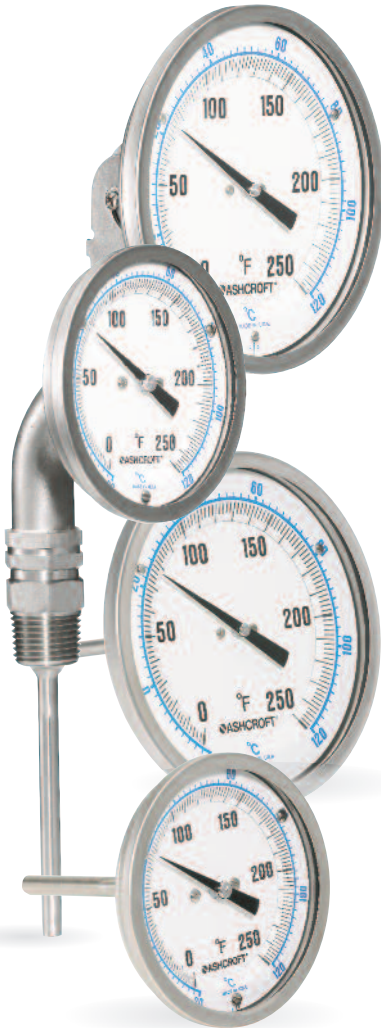


EI Series Bimetal Thermometers



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.
- External adjustment permits zero reset from outside the case.
- 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 NEMA 4X/IP66
- Five year limited warranty



SPECIFICATIONS

Ashcroft® Series:	EI
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, ½ NPT union
Connection Location:	Everyangle™, 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 X02 ¼ NPT when ½ NPT is standard XS1 Silicone free XYW 316SS Housing ⁽⁴⁾ and stem

- (1) Special or longer length available, consult factory
 (2) Dual scale available with 3" and 5" case only
 (3) Only available on rear connection
 (4) Only available on 5" Everyangle™ with 60" 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	EI	60	R	040	0/250°F	XNH
Dial Size: 3" Code 30	_____	_____	_____	_____	_____	_____	_____
Case Style: EI	_____	_____	_____	_____	_____	_____	_____
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	_____	_____	_____	_____	_____	_____	_____

EI Series Bimetal Thermometers

EI Series selection table

Case	Size	Style Code	Conn.	Code	Location	Code	Length (inches)	Code	°F* Fahrenheit	% Div.	Fig. Inter.	°C Celsius	% Div.	Fig. Inter.
2"	20		Plain	40	Rear	R	2½	025	-80/120	2	20	-50/50	1	10
			Pointed	50					-20/120††			-20/120		
			½ NPT	60					30/130††			0/50††		
3"	30		½ NPT Union	42	Everyangle	E	4	040	0/200	2	20	0/100	1	10
			½ NPT	60			6	060						
			½ NPT	60			9	090						
			½ NPT	60	Rear Lower	R	12	120	50/300	5	50	10/150	2	20
			½ NPT Union	42			15	150						
			½ NPT	60			18	180						
5"	50		½ NPT Union	42	Everyangle	E	24	240	200/700†	10	100	50/450**††	5	50
			½ NPT	60										
			½ NPT	60	Rear Lower	R			200/1000**††	10	100	100/500**††		
			½ NPT	60										

CONTACT FACTORY FOR ADDITIONAL STEM LENGTHS AND RANGES NOT LISTED

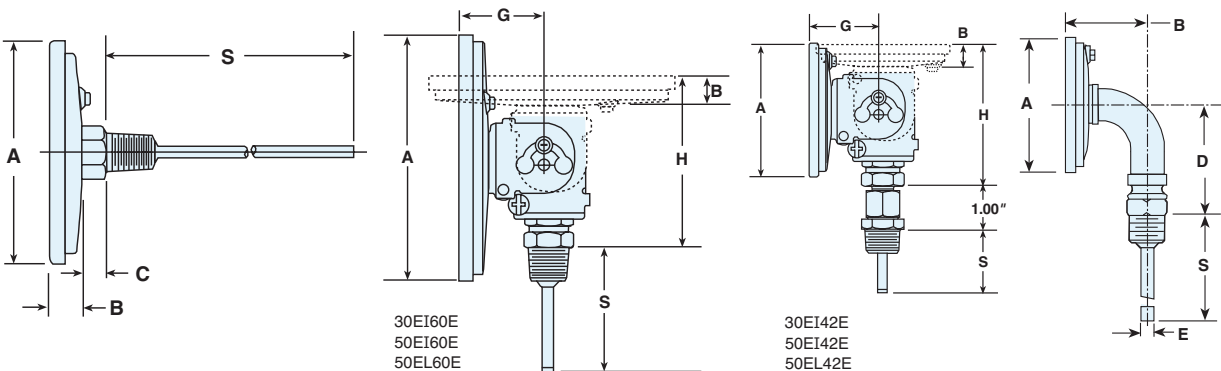
EI Dimensions

Case Series	Dial Size	Connection Location	A	B	C	D	E	G	H	S	NPT	Hex	Weight in ounces ⁽³⁾
EI	2"	Rear (Plain)	2½ ₍₅₃₎	¾ ₍₁₀₎	¾ ₍₈₎	—	—	—	—	— ⁽²⁾	—	1½ ₍₆₎	4½
EI	2"	Rear (Plain, pointed stem)	2½ ₍₅₃₎	¾ ₍₁₀₎	¾ ₍₈₎	—	—	—	—	— ⁽²⁾	—	1½ ₍₆₎	4½
EI	2"	Rear (Threaded)	2½ ₍₅₃₎	¾ ₍₁₀₎	¾ ₍₈₎	—	—	—	—	— ⁽²⁾	¼	1½ ₍₆₎	4½
EI	3"	Rear	3½ ₍₈₀₎	1½ ₍₁₅₎	¾ ₍₈₎	—	—	—	—	— ⁽²⁾	½	¾	7
EI	3"	Lower	3½ ₍₈₀₎	1½ ₍₁₅₎	¾ ₍₈₎	2½ ₍₆₇₎	¾ ₍₆₎	—	—	— ⁽²⁾	½	¾	11
EI	3"	Everyangle	3½ ₍₈₀₎	1½ ₍₁₅₎	¾ ₍₈₎	—	—	1½ ₍₄₂₎	3½ ₍₈₉₎	— ⁽²⁾	½	¾	10
EI	5"	Rear	5½ ₍₁₂₈₎	2½ ₍₁₈₎	¾ ₍₈₎	—	—	—	—	— ⁽²⁾	½	¾	16
EI	5"	Lower	5½ ₍₁₂₈₎	1½ ₍₁₈₎	¾ ₍₈₎	3½ ₍₉₂₎	¾ ₍₆₎	—	—	— ⁽²⁾	½	¾	26
EI	5"	Everyangle	5½ ₍₁₂₈₎	2½ ₍₁₈₎	¾ ₍₈₎	—	—	1½ ₍₄₈₎	3½ ₍₉₃₎	— ⁽²⁾	½	¾	25

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- 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



EI 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 ΩΩ
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 and Everyangle is 4".