

FEATURES

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
- Maxivision[®] dial for precise readings (minimize parallax reading errors)
- Silicone dampened coil for reduction of pointer flutter on high vibration application and provides improved response times
- External adjustment
- Customized dial printing
- Everyangle[™] connection dial can be rotated 360°

TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Pulp and paper
- Refineries
- Power
- General industrial
- HVAC
- Equipment skids
- Pharmaceutical / Biotech
- Food and beverages

SPECIFICATIONS

Accuracy:	±1% of span ASM	1E B40.200 (B40.3 Grade A)				
Stem Length:	21⁄2″ to 60″					
Sizes:	2″, 3″, 5″					
Dial Style:	Maxivision®, black	figures on white background				
Overtemperature Limits:	Top of Range °F up to 250 251-550 551-1,000	Max. Over Temperature 100% of span 50% of span 800 °F				
	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 Ste ½ NPT Adjustable	m, ½ NPT, ½ NPT Union and Union				
Stem diameter:	0.250″, 0.375″					
Case & Stem:	304 SS, 316 SS H	lermetically sealed				
Process Connection Location:	2″: Rear 3″, 5″: Everyangle™, Lower , Rear					
Pointer:	Black					
Window:	Glass, Acrylic, Saf	fety 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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El Bimetal 2", 3", 5" dial sizes



KEY BENEFITS

- NEMA 4X/IP66 protection
- Able to perform quick and limited span adjustments
- All Welded stainless steel construction
- 5-year limited warranty

MIN/MAX TEMPERATURE LIMITS

Ambient

-40 °F to 200 °F (-40 °C to 93 °C)



ORDERING CODE	Example:	30EI	60	R	060	XSG	0/200°F
Dial Size and Model							
20EI - 2" External adjust bimetal (rear connection only)							
30EI - 3" External adjust bimetal		30EI					
50EI - 5" External adjust bimetal							
Stem and Connection							
40 - Plain - no connection				_			
42 - ½ NPT Union (Everyangle [™] only) (Allows thermometer to be rota	ated to desired orientation)			-			
50 - Pointed stem - no connection (2" case only)				-			
60 - ½ Fixed NPT for 3 & 5" but ¼ fixed NPT for 2"			60	-			
70 - ½ NPT Adjustable Union (Everyangle™ only) (Allows thermore	neter to be rotated & adjust process	s insertion length desi	red)	-			
Connection Location				-			
R - Rear connection				R			
L - Lower connection							
E - Everyangle™ connection							
Stem Length (Consult factory for custom or longer stem ler	ngth)						
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 - Acrylic window							
SG - Safety glass						SG	
YW - 316 Stainless steel construction (5" Everyangle™ connection	on)						
C4 - Traceable calibration certificate							
S1 - Silicone free							
3B - ¾ stem diameter							
02 - ¼ NPT (only available on rear connection)							
Temperature Ranges (see tables on pages 3 and 4 for more	e ranges)						-







Fahrenheit 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" min. for Everyangle ^{m} and lowers only	eq	-10/50	20/120				
	0/150	-20/65	4" min. for Everyangle $^{\scriptscriptstyle \rm M}$ and lowers only	id fil	-10/110	20/230				
	0/160	-20/70	4" min. for Everyangle $^{\scriptscriptstyle \rm M}$ and lowers only	Can be Liquid filled	0/60	30/140	4″ minimum			
	0/200	-20/93		ו be	0/100	30/210				
filled	0/250	-20/120		Cai	0/120	30/250				
pini	0/300	-20/150			0/150	30/300				
Can be liquid filled	0/350	-20/170			0/200	30/400				
Can I	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. Intermittent service from 800° to			
	50/550	10/290					1,000 °F or 425 °C to 500 °C			
	0/700	-20/370	4″ minimum		100/500	220/930	4″ minimum			
	100/800	50/430	4″ minimum				Satisfactory continuous service from 800 °F			
	150/750	65/395	4″ minimum				or 426 °C. Intermittent service from 800° to 1,000 °F or 425 °C to 500 °C			
	200/700	100/370	4″ minimum			1				
	200/1000	100/550	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							

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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	
	$4^{\! \prime \prime}$ min. for Everyangle $^{\scriptscriptstyle \rm M}$ and lowers only	0/100	-20/180	
	$4^{\! \prime\prime}min.$ for Everyangle [™] and lowers only	0/150	-10/50	
	$4^{\! \prime\prime}min.$ for Everyangle $^{\rm \tiny M}$ and lowers only	0/160	—	
lled		0/200	-10/110	
Can be Liquid filled		0/250	0/50	4″ minimum
Liqu		0/300	0/60	4″ minimum
n be		0/400	—	
Ca		0/500	0/100	
	$4^{\! \prime\prime}$ min. for Everyangle [™] and lowers only	20/120	0/120	
	$4^{\! \prime\prime}min.$ for Everyangle™ and 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

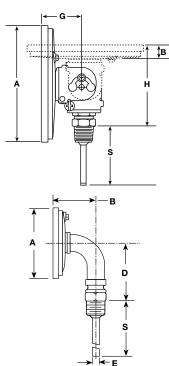
Dial Size (Inches)	Process Connection Locations	А	В	С	D	G	н	S	NPT	Hex.	Weight (oz) ⁽¹⁾ S - 2½″
2	Rear (Plain)	2 ³ ⁄32 [53]	3⁄8 [10]	3⁄8 [10]				(2)		¹¹ / ₁₆	4 ¹ / ₂
2	Rear (Plain, pointed stem)	2 ³ ⁄32 [53]	3⁄8 [10]	¾ [10]				(2)		¹¹ /16	41/2
2	Rear (Threaded)	2 ³ ⁄32 [53]	¾ [10]	¾ [10]				(2)	1⁄4	¹¹ /16	41/2
3	Rear	35⁄32 [80]	1⁄2	¾ [10]				(2)	1⁄2	7/8	7
3	Lower	35⁄32 [80]	1 ½		2⁵⁄8 [67]			(2)	1⁄2	7/8	11
3	Everyangle™	35⁄32 [80]	1⁄2			1 ²¹ ⁄ ₃₂ [42]	3 3⁄8	(2)	1⁄2	7/8	10
5	Rear	5 ¹ ⁄32 [128]	¹⁹ ⁄32	¾ [10]				(2)	1⁄2	7/8	16
5	Lower	5 ¹ ⁄32 [128]	1 ¹⁵ ⁄16 [49]		3⁵⁄8 [92]			(2)	1/2	7⁄8	26
5	Everyangle™	5 ¹ ⁄32 [128]	¹⁹ ⁄32			1 ³ /4	3 ²¹ / ₃₂ [93]	(2)	1⁄2	7/8	25

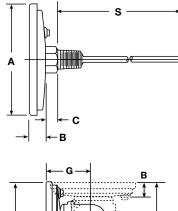
NOTES:

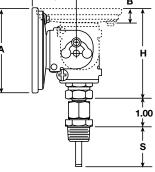
1. Add 1 oz. for every 2" inches of stem length

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 $\pm 0.250^{"}$







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