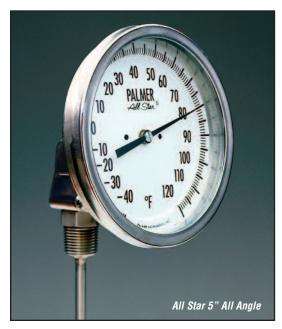
All Star Bimetal Thermometers & 316SS / IP67

Type 3BC • 5BC • 3A • 5A 3BCJ • 5BCJ • 3AJ • 5AJ

NEW! 316SS with IP67 for resistance to harsh outdoor environments



Palmer design, quality, and craftsmanship make the Palmer All Star Bimetal Thermometer an Industry standard for rugged reliability and accuracy.

Now available in 316SS with IP67 option. Designed with deepwater drillers and offshore riggs in mind, the 316SS Bimet with IP67 resists harsh environmental conditions, meeting the rigorous needs of outdoor use.



Adjustable Union Fitting: Optional Adjustable Union (shown below) easily adjusts the stem to the full depth of your thermowell for metal to metal contact, giving maximum exposure to your process. Eliminates the need to stock several different stem

Standard Styles and Dial Sizes: Popular Back Connected and versatile All Angle case styles in easy-reading 5" and space-saving 3" Dial sizes.

Ranges and Stem Lengths: Models for every application. Fahrenheit ranges from -100° up to 1000° and Celsius ranges from -50° up to 500° are available. Stem lengths up to 24" are standard with specials up to 60". Minimum stem length of 6" on Adjustable Union.

ASME B-40.3: Meets standards set by the American Society of Mechanical Engineers.

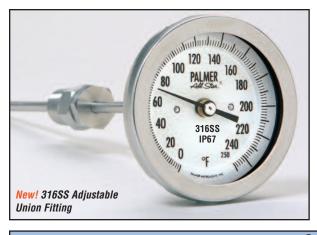
Rugged Design Features: All 304 stainless steel exterior parts with instrument glass lens (plexiglass option). Optional 316SS Case, Fitting and Stem, or

> Fitting and Stem only. Quick-lock, cam-action bezel ring with heavy duty, heat-resistant hermetically sealed gasket seals out moisture to prevent lens icing or fogging. Prevents bimetal coil freeze-up in extreme conditions. Built-in over-range protection and adjustable pointer are standard.

Accuracy: Accuracy is within 1% of full scale.

Easy Reading: Dials are specially fabricated of low-glare finished metal using a deep draw design for anti-parallax alignment of pointer to graduation marks. High-visibility numerals and graduations also help minimize reading errors.

Fast Response: Superior heat transfer characteristics, fast response, and consistent repeatability are achieved through the use of a high-torque, low mass bimetal sensing element. Materials and design combine to convert the sensor's movement quickly and accurately into a dial reading.



Specifications

Form: All Angle, Fixed Back Connected, and All Angle Adjustable or Fixed Back Adjustable.

Case: Polished-Type 304 Stainless Steel Case and Bezel in 3" (76 mm) or 5" (127 mm) Size. Hermetically Sealed.

Stem: Polished-Type 304 Stainless Steel. All Welded.

Stem Length: See Stem Length Table. Page 5. Custom lengths up to 60" (152cm). 6" minimum on Adjustable Union.

Fitting: 304 Stainless Steel. 7/8" Hex with 1/2" NPT Threads.

Option 316SS Case, Fitting and Stem with IP67: Choose Code CS.

Option 316SS Fitting and Stem only: Choose Code FS (no IP67).

Dial Face: Black Graduations and Numerals on White Background. Anti-parallax Dial Design with Linear Scale. High-Visibility Tapered-Tip Black Pointer.

Lens: Instrument Quality Glass Standard. Optional Plexiglass or Shatter Proof Safety Glass.

Recalibration: External Reset Nut. Dial Rotation Gear positions the Dial in relation to the Pointer.

Accuracy: 1% of Full Range.

Element: Single Helix Bimetallic Coil Sensing Element, with silicone on coil, located in bottom 2-1/2 inches of thermometer stem.

Over-Range: Protected design allows temporary swings of up to 50% of Range.

Warranty: One Year Limited Warranty.



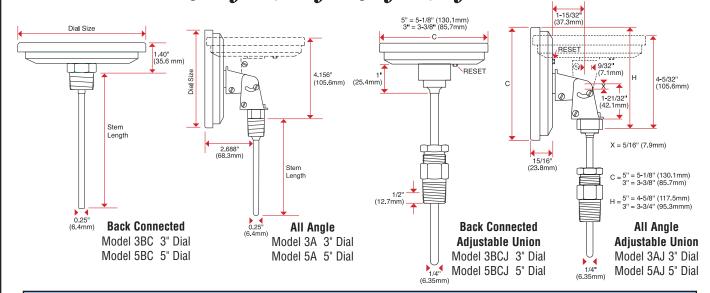




Register your product at www.palmerwahl.com/register

Type 3BC • 5BC • 3A • 5A 3BCJ • 5BCJ • 3AJ • 5AJ

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How To Order

1. Select Case Style and Dial Size Code from the table below.

	Case Style and Dial Size							
Dial Size	Back All Angle Back Connected Connected Adjustable Union Adjustable							
3" Dial	3BC	3A	3BCJ	3AJ				
5" Dial	5BC	5A	5BCJ	5AJ				

Select Stem Length Code from table below.

Stem Length								
Code 2.5		4	6	9	12	15	18	24
Length (in)	2.5	4	6	9	12	15	18	24
Length (mm)	63.5	102	152	229	305	381	457	610

Adjustable Union minimum Stem Length is 6". Stem Lengths up to 60" available on special request. Lengths over 30" have a 3/8" support tubing.

3. Select Temperature Range Code from the table below

Temperature Range Codes	0. 00.000	Tomporataro Hango ocao Hom the table below.
		Temperature Range Codes

Telliperature nange codes								
3" & 5" Scales						5" Dual Range Scales		
°F Range	°Div	Code	°C Range	°Div	Code	°F/°C Range °Div C		Code
-100 to 100	2°	-100/100F	-50 to 50	1°	-50/50C	NA		
-40 to 120	1°	-40/120F	-50 to 100	1°	-50/100C	NA		
0 to 200	2°	0/200F	-20 to 120	1°	-20/120C	0 to 200/-15 to 90	2°F/1°C	0/200F&C
0 to 250	2°	0/250F	0 to 501	0.5°	0/50C	0 to 250/-20 to 120	2°F/1°C	0/250F&C
25 to 125 ¹	1°	25/125F	0 to 100	1°	0/100C	NA		
50 to 300	2°	50/300F	0 to 150	1°	0/150C	50 to 300/10 to 150	2°F/1°C	50/300F&C
50 to 400	5°	50/400F	0 to 200	2°	0/200C	50 to 400/10 to 200	5°F/2°C	50/400F&C
50 to 500	5°	50/500F	0 to 300	5°	0/300C	50 to 500/10 to 260	5°F/2°C	50/500F&C
150 to 750 ¹	5°	150/750F	100 to 400 ¹	5°	100/400C	150 to 750/65 to 400	10°F/5°C	150/750F&C
200 to 1000 ^{1,2}	10°	200/1000F	100 to 500 ^{1,2}	5°	100/500C	200 to 1000/100 to 540	10°F/5°C	200/1000F&C
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^{4.} Select Option Code from below.

	Options							
Code	Description							
(GF)	Glycerine Filled							
(SF)	Silicone Filled (Discontinued)							
(PC)	Plexiglass Cover							
(SPG)	Shatter Proof Safety Glass							
(1/4NPT) 1/4" NPT Fixed Thread Fitting								
(3/8NPT) 3/8" NPT Fixed Thread Fitting								
(7/8\$N) 7/8"- 22 Swivel Nut Fitting*								
(1/2NPS)	/2NPS) 1/2" NPSM Union Swivel Nut							
(3/8D)	3/8" Diameter Stem with Pointed Tip*							

^{*} Not available on Adjustable Union.

Order 316SS Case, Fitting

361SS Fitting and Stem only

by inserting desired option

code at end of part number.

and Stem with IP67, or

5. Select 316SS Option Code below.

316SS Material Options						
Code	Description					
(CS)	316SS Case, Fitting and Stem with IP67					
(FS)	316SS Fitting and Stem only (no IP67)					

Standard Part Number Example: 5BC1225/125F

316SS Option Part Number Example: 5BC1225/125F(CS)

5" Back Connected Dial 12" Stem, 25° to 125°F Temperature Range, Shatter Proof Glass, 3/8" Diameter Stem with Pointed Tip, 316SS Case, Fitting, Stem and IP67.

Register your product at www.palmerwahl.com/register



Minimum stem length for these ranges is 4" in All Angle, and 6" in Back Connected.
Recommended for continuous service up to 800°F or 427°C. Can be used for intermittent service up to 1000°F or 500°C.