

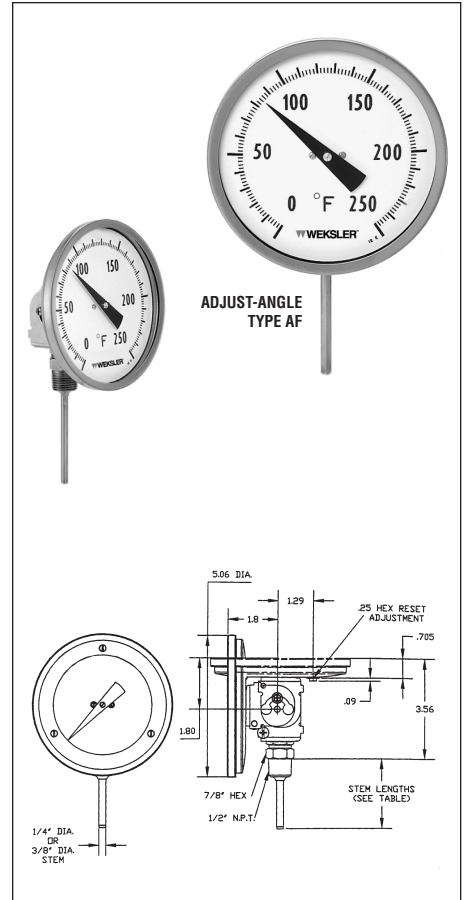
**STANDARD RANGES**

- All Stainless Steel Construction
- External Recalibration Adjustment
- White dial with black markings
- Accurate to ±1% of Scale Range
- Gasketed Glass Face
- Case is sealed to exclude dirt, dust and moisture
- 3" and 5" dial sizes
- Angularly adjustable frame permits positioning of dial to accommodate viewing requirements

**3" AND 5" DIAL SIZE CATALOG NUMBERS**

STEM LENGTH	FIXED THREAD		UNION CONNECTED	
	3"	5"	3"	5"
2½"	CF02	AF02	CU02	AU02
4"	CF04	AF04	CU04	AU04
6"	CF06	AF06	CU06	AU06
9"	CF09	AF09	CU09	AU09
12"	CF12	AF12	CU12	AU12
15"	CF15	AF15	CU15	AU15
18"	CF18	AF18	CU18	AU18
24"	CF24	AF24	CU24	AU24

NOTE: Union connected types must be used with thermowells, longer length available on special order.



**STANDARD RANGES**

CODE	Fahrenheit
FC	-80 to 120°F
FE	-40 to 120°F
FG	0 to 150°F
FJ	0 to 200°F
FL	0 to 250°F
FM	30 to 240°F
FN	30 to 130°F †
FR	50 to 300°F
FS	50 to 400°F
FT	50 to 550°F
FX	150 to 750°F †
FY	200 to 1000°F* †
	Celsius
CD	-50 to 50°C
CJ	0 to 100°C
CM	-10 to 110°C
CN	0 to 50°C †
CR	0 to 150°C
CS	0 to 200°C
CU	0 to 300°C
CX	50 to 450°C †
CY	100 to 550°C* †

CODE	DUAL SCALE	
	Fahrenheit (on outside) and Celsius (on inside)	
DE	-40/120°F and -40/50°C	
DF	40/160°F and -40/70°C	
DN	30/130°F and 0/55°C †	
DJ	0/200°F and -20/94°C	
DL	0/250°F and -20/120°C	
DR	50/300°F and 10/150°C	
DS	50/400°F and 10/200°C	
DT	50/550°F and 10/290°C	
DX	100/800°F* and 40/430°C †	
DY	200/1,000°F and 100/550C* †	

\*Not recommended for continuous service above 800°F (425°C). For such temperatures see pg. 63.  
†Minimum stem length for these ranges 4".

**OPTIONAL FEATURES**

CODE	Description
EL	Liquid Filling for Catalog No's AF, 3A, 5A only
PD	Plastic Window
SG	Shatter Proof Glass
NN	Paper Tag
NH	Stainless Steel Tag
DM	Dial Markings
C4	Calibration Certificate

**SEPARABLE THERMOWELLS AVAILABLE  
SEE PAGES 59 - 63**

**HOW TO ORDER**

**A F 0 6 4 4 F M X**

1. Basic 4-digit Catalog No. From Table Above \_\_\_\_\_
2. Stem Diameter: "4" = .250"O.D. (Standard); "5" = .375"O.D. (Extra Cost) \_\_\_\_\_
3. Thread Size: "4" = ½ NPT Male (AF Series); "U" = ½ NPT Male Swivel Nut (AU Series) \_\_\_\_\_
4. 2 Digit Range Code from Range Tables Above \_\_\_\_\_
5. Option(s): "X" = None Required; "9" = Option(s) Required (Extra Cost) \_\_\_\_\_

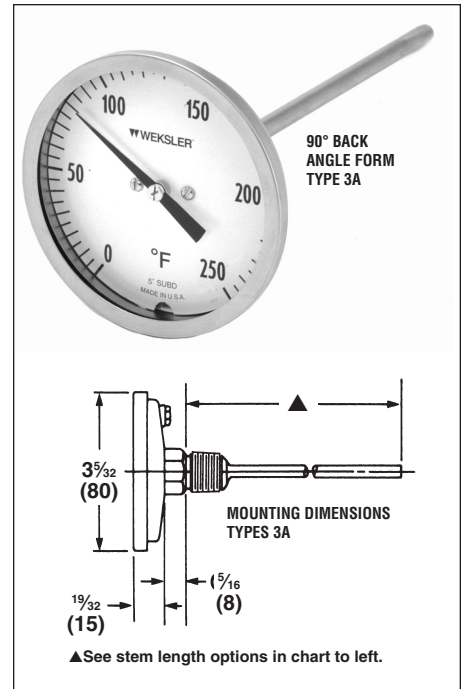
If option(s) are required specify: Plastic Face, Shatterproof Glass Face, Paper Tag, Stainless Steel Tag

**STANDARD FEATURES**

- All Stainless Steel Construction
- External Recalibration Adjustment
- White dial with black markings
- Accurate to ±1% of Scale Range
- Gasketed Glass Face
- Case is sealed to exclude dirt, dust and moisture
- 3" dial size

CATALOG NUMBERS*		
STEM LENGTH	90° BACK ANGLE FORM	STRAIGHT FORM
2½"	3A02	3S02
4"	3A04	3S04
6"	3A06	3S06
9"	3A09	3S09
12"	3A12	3S12
15"	3A15	3S15
18"	3A18	3S18
24"	3A24	3S24

Longer stem lengths available on special order.



**STANDARD RANGES**

CODE	Fahrenheit
FC	-80 to 120°F
FE	-40 to 120°F
FG	0 to 150°F
FJ	0 to 200°F
FL	0 to 250°F
FM	30 to 240°F
FN	30 to 130°F †
FR	50 to 300°F
FS	50 to 400°F
FT	50 to 550°F
FX	150 to 750°F †
FY	200 to 1000°F* †

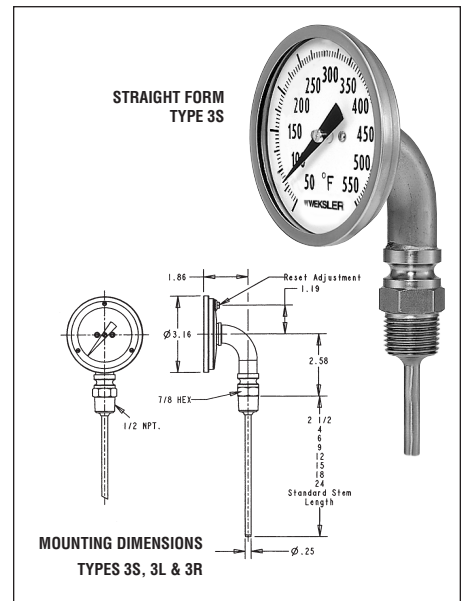
  

CODE	Celsius
CD	-50 to 50°C
CJ	0 to 100°C
CM	-10 to 110°C
CN	0 to 50°C †
CR	0 to 150°C
CS	0 to 200°C
CU	0 to 300°C
CX	50 to 450°C †
CY	100 to 550°C* †

CODE	DUAL SCALE	
	Fahrenheit (on outside)	Celsius (on inside)
DE	-40/120°F	and -40/50°C
DF	40/160°F	and -40/70°C
DN	30/130°F	and 0/55°C †
DJ	0/200°F	and -20/94°C
DL	0/250°F	and -20/120°C
DR	50/300°F	and 10/150°C
DS	50/400°F	and 10/200°C
DT	50/550°F	and 10/290°C
DX	100/800°F*	and 40/430°C †
DY	200/1,000°F	and 100/550°C* †

\*Not recommended for continuous service above 800°F (425°C). For such temperatures see pg. 63.  
 †Minimum stem length for these ranges 4".

OPTIONAL FEATURES	
CODE	Description
EL	Liquid Filling for Catalog No's AF, 3A, 5A only
PD	Plastic Window
SG	Shatter Proof Glass
NN	Paper Tag
NH	Stainless Steel Tag
DM	Dial Markings
C4	Calibration Certificate



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SEE PAGES 59 - 63**

**HOW TO ORDER**

**3 S 0 4 4 4 D R X**

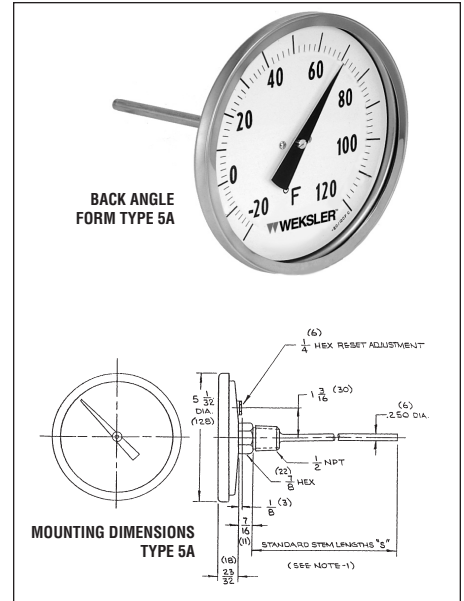
1. Basic 4-digit Catalog No. From Table Above \_\_\_\_\_
2. Stem Diameter: "4" = .250" O.D. (Standard); "5" = .375" O.D. (Extra Cost) \_\_\_\_\_
3. Thread Size: "4" = 1/2 NPT Male; "U" = 1/4 NPT Male (Extra Cost) \_\_\_\_\_
4. 2 Digit Range Code from Range Tables Above \_\_\_\_\_
5. Option(s): "X" = Non Required Option(s) Required (Extra Cost) Select code from above table \_\_\_\_\_

**STANDARD FEATURES**

- All Stainless Steel Construction
- External Recalibration Adjustment
- White dial with black markings
- Accurate to ±1% of Scale Range
- Gasketed Glass Face
- Case is sealed to exclude dirt, dust and moisture
- 5" dial size

CATALOG NUMBERS*		
STEM LENGTH	90° BACK ANGLE FORM	STRAIGHT FORM
2½"	5A02	5S02
4"	5A04	5S04
6"	5A06	5S06
9"	5A09	5S09
12"	5A12	5S12
15"	5A15	5S15
18"	5A18	5S18
24"	5A24	5S24

Longer stem lengths available on special order



**STANDARD RANGES**

CODE	Fahrenheit
FC	-80 to 120°F
FE	-40 to 120°F
FG	0 to 150°F
FJ	0 to 200°F
FL	0 to 250°F
FM	30 to 240°F
FN	30 to 130°F †
FR	50 to 300°F
FS	50 to 400°F
FT	50 to 550°F
FX	150 to 750°F †
FY	200 to 1000°F* †

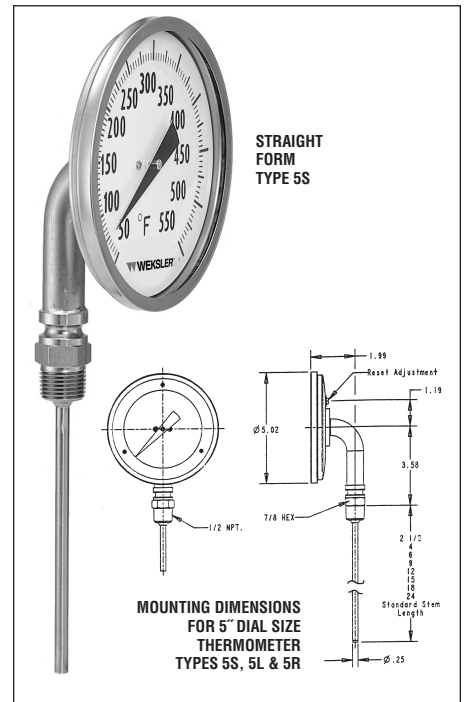
  

CODE	Celsius
CD	-50 to 50°C
CJ	0 to 100°C
CM	-10 to 110°C
CN	0 to 50°C
CR	0 to 150°C
CS	0 to 200°C
CU	0 to 300°C
CX	50 to 450°C †
CY	100 to 550°C* †

CODE	DUAL SCALE	
	Fahrenheit (on outside)	Celsius (on inside)
DE	-40/120°F	and -40/50°C
DF	40/160°F	and -40/70°C
DN	30/130°F	and 0/55°C †
DJ	-0/200°F	and -20/94°C
DL	0/250°F	and -20/120°C
DR	50/300°F	and 10/150°C
DS	50/400°F	and 10/200°C
DT	50/550°F	and 10/290°C
DX	100/800°F*	and 40/430°C †
DY	200/1,000°F	and 100/550°C* †

\*Not recommended for continuous service above 800°F (425°C). For such temperatures see pg. 63.  
 †Minimum stem length for these ranges 4".

CODE	DESCRIPTION
EL	Liquid Filling for Catalog No's AF, 3A, 5A only
PD	Plastic Window
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**SEPARABLE THERMOWELLS AVAILABLE  
SEE PAGES 59 - 63**

**HOW TO ORDER**

**5 A 0 6 4 4 F J X**

1. Basic 4-digit Catalog No. From Table Above \_\_\_\_\_
2. Stem Diameter: "4" = .250" O.D. (Standard); "5" = .375" O.D. (Extra Cost) \_\_\_\_\_
3. Thread Size: "4" = ½ NPT Male; "U" = ¼ NPT Male (Extra Cost) \_\_\_\_\_
4. 2 Digit Range Code from Range Tables Above \_\_\_\_\_
5. Option(s): "X" = Non Required Option(s) Required (Extra Cost) Select code from above table \_\_\_\_\_

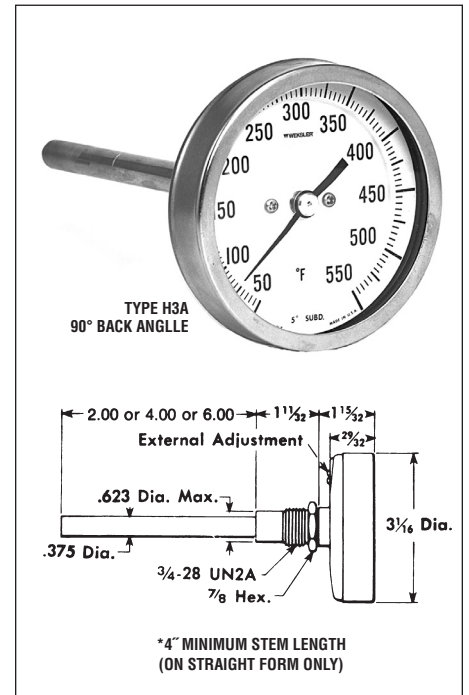
**STANDARD FEATURES**

- Shock and Vibration Resistant
- Stainless Steel Construction
- Plastic Crystal
- Dished Anti-Parallax Dial for Easy Reading
- External Recalibration Adjustment at Rear of Case
- Accurate to 1% of Scale Range (when tested without well)
- Interchangeable with 5" Scale Size "Submarine" Thermometers Having Same Stem Length
- 3/4"-28 UN2A Union Connection Assembly Must be used with Well (or Bushing)

STEM LENGTH	CATALOG NUMBERS	
	90° BACK ANGLE FORM	STRAIGHT FORM
2"	H3A2	H3S2
4"	H3A4	H3S4
6"	H3A6	H3S6

NOTE: A minimum of 2" insertion (immersion) is required for accurate readings and proper response.

CODE	Fahrenheit
D	-40 to 120°F in 2° divs.*
H	0 to 200°F in 2° divs.
L	20 to 240°F in 2° divs.
P	50 to 300°F in 2° divs.
Q	50 to 400°F in 5° divs.
R	50 to 500°F in 5° divs.
S	50 to 750°F in 10° divs.
Celsius	
1	-50 to 50°C in 1° divs.*
2	-10 to 110°C in 1° divs.
5	0 to 150°C in 2° divs.
6	0 to 200°C in 2° divs.
8	0 to 300°C in 5° divs.



**HOW TO ORDER**

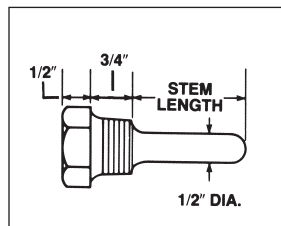
**H 3 S 4 H**

1. Basic 4-digit Catalog No. \_\_\_\_\_
2. Range Code \_\_\_\_\_

**THERMOWELLS FOR HEAVY DUTY BIMETAL THERMOMETERS  
.385" BORE – 3/4-28" FEMALE THREAD (INTERNAL)**

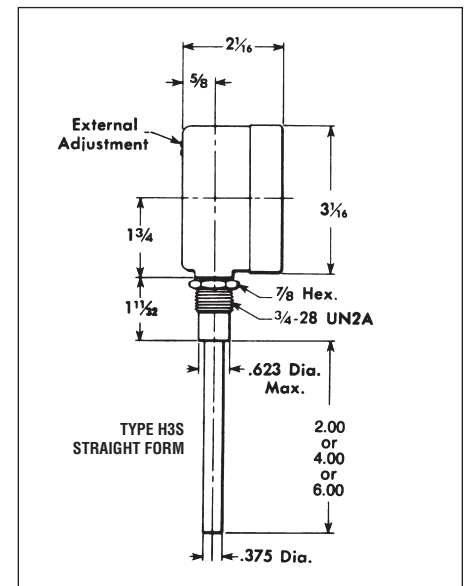
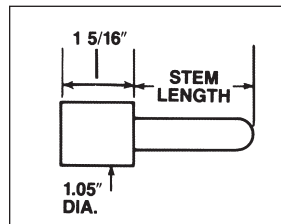
**THREADED TYPE – 3/4-14 NPT MALE**

THERMOMETER STEM LENGTH	WELL LENGTH (OVERALL)	CATALOG NO.		
		NAVAL BRASS	304 SS	MONEL
2"	3 1/4"	W3N1	W3G1	W3M1
4"	5 1/4"	W5N1	W5G1	W5M1
6"	7 1/4"	W7N1	W7G1	W7M1



**WELDING/BRAZING TYPE – 3/4 SOCKET WELD**

THERMOMETER STEM LENGTH	WELL LENGTH (OVERALL)	CATALOG NO.		
		PHOS. BRONZE	COPPER NICKEL	316 SS
2"	3 5/16"	W4R4	W4C4	W4F4
4"	5 5/16"	W6R5	W6C5	W6F5
6"	7 5/16"	W8R6	W8C6	W8F6



To Order: Specify 4 digit catalog no. from above tables