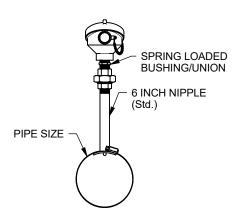


PIPE MOUNTING KIT

The Pipe Mounting Kit allows for non-intrusive surface temperature measurement. It's available in various pipe sizes to meet your application needs. The minimum pipe size is 3/4".







BUILD YOUR HEAD ASSEMBLY: Build your thermocouple or RTD head assembly part number, then add the following code on the end as an option. Example: BX4T6M25K1SG6-PMK4

BX4T6M25K1SG6 -PMK4 HEAD ASSEMBLY OPTIONS PART NUMBER

Note: a spring loaded nipple or nippleunion-nipple process connection is required.

See page 7 for the Thermocouple Head Assembly part builder. The minimum pipe size is 3/4".

-PMK2 = Pipe Mounting Kit for 2" Pipe -PMK4 = Pipe Mounting Kit for 4" Pipe -PMK6 = Pipe Mounting Kit for 6" Pipe -PMK? = Pipe Mounting

Kit for ?" Pipe



THERMOCOUPLE HEAD ASSEMBLY

Reotemp offers a large selection of Industrial Thermocouple Head Assemblies supplied with or without a transmitter. Customizable options include a large variety of elements, connection heads, explosion proof approvals, stem lengths and process connections.







THERMOCOUPLE HEAD ASSEMBLY

BUILD YOUR THERMOCOUPLE ASSEMBLY: Choose options to build a part number. For example: BX1TM25K1SG6



HEAD STYLE

Head	Code	Description	Ratings	C FM us APPROVED	∰ * ∪s	⟨£x⟩	Display	Standard Conduit
	Α	Cast Iron Black	NEMA 4					3/4"
	В	Cast Aluminum	NEMA 4X					3/4"
	E	Explosion Proof Aluminum	NEMA 4X	√	✓			3/4"
	-1	Blue Epoxy Aluminum	NEMA 4X					3/4"
3	S	Polypropylene White	NEMA 4					3/4"
	w	Field HART Transmitter	IP68, NEMA 4X	√	✓	✓	√	1/2"
	z	Z-Temp™ Explosion Proof Aluminum	NEMA 4X, IP66	✓	✓	✓	√	1/2"
	G	316SS	NEMA 4X					3/4"
1	т	ATEX Explosion Proof Aluminum	NEMA 4X	√	✓	✓		1/2"
	L	Explosion Proof Epoxy Coated Aluminium	NEMA 4X	✓	✓			3/4"

See page 50 for additional head style options.



X

HEAD OPTIONS (OPTIONAL)

TRANSMITTER (OPTIONAL)

Note: All heads come standard with a ceramic terminal block unless no terminal block or a

transmitter is chosen.

H = 1/2" Conduit S = 1/2" BSPP Conduit $M = M20 \times 1.5$ "

N = No Terminal Block

Standard

X = 4-20 mA 2-wire Transmitter R = 4-20 mA 2-wire HART Transmitter F = 4-20 mA 2-wire Foundation Fieldbus

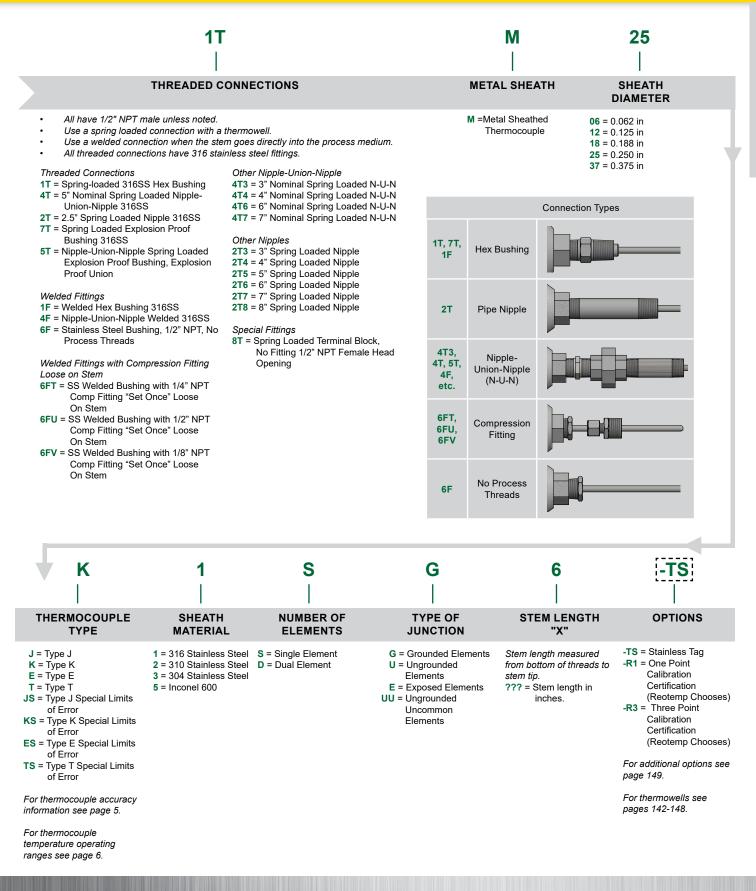
P = 4-20 mA 2-wire Profibus

Required when Z-Head is Selected:

B = 4-20 mA 2-wire Transmitter with Digital Display Y = 4-20 mA 2-wire HART Transmitter with Digital Display



THERMOCOUPLE HEAD ASSEMBLY





REFERENCE INFORMATION

	THERMOCOUPLE WIRE COLOR CODES (U.S.A. ANSI)									
	Thermocouple Grade	Extension Grade	Plug/ Jack		Thermocouple Grade	Extension Grade	Plug/Jack			
K	Brown Red -	Yellow Yellow Red -	Yellow	N	Brown Red -	Orange Orange + Red -	Orange			
J	Brown Red -	Black White +	Black	S	None Established	Green Black +	Green			
т	Brown Red -	Blue +	Blue	R	None Established	Green Black +	Green			
E	Brown Red Red	Purple Purple Red -	Purple	В	None Established	Grey Grey Red -	White			

	THERMOCOUPLE & RTD ACCURACIES										
	Type K	Type J	Type T	Type E	Type N	Type S	Type R	Type B	RTD Class B	RTD Class A	
-328°F	*	-	*	*	-	-	-	-	± 2.34°F	± 2.34°F	
-148°F	*	-	*	*	-	-	-	-	± 1.44°F	± 1.44°F	
32°F	± 3.96°F	± 3.96°F	± 1.8°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	-	± 0.54°F	± 0.27°F	
392°F	± 3.96°F	± 3.96°F	± 2.7°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	-	± 2.34°F	± 0.99°F	
752°F	± 5.4°F	± 5.4°F	-	± 3.6°F	± 5.4°F	± 2.7°F	± 2.7°F	-	± 4.14°F	± 4.14°F	
1112°F	± 8.1°F	± 8.1°F	-	± 5.4°F	± 8.1°F	± 2.7°F	± 2.7°F	-	± 5.94°F	± 5.94°F	
1472°F	± 10.8°F	-	-	± 7.2°F	± 10.8°F	± 3.6°F	± 3.6°F	-	-	-	
1832°F	± 13.5°F	-	-	-	± 13.5°F	± 4.5°F	± 4.5°F	± 9°F	-	-	
2192°F	± 16.2°F	-	-	-	± 16.2°F	± 5.4°F	± 5.4°F	± 10.8°F	-	-	
2552°F	-	-	-	-	-	± 6.3°F	± 6.3°F	± 12.6°F	-	-	
2912°F	-	-	-	-	-	-	-	± 14.4°F	-	-	

Note: The accuracies in the above table are estimates given at fixed points, they do not apply to temperature ranges and are intended only as examples to give a general idea of what can be expected. Consult Reotemp if a specific accuracy is required or to confirm accuracies at any points not listed in the above table.

*Thermocouples are normally supplied to meet the tolerances specified in the table for temperatures above 32°F. The same materials, however, may not fall within the tolerances for temperatures below 32°F. If materials are required to meet the tolerances stated for temperatures below 32°F, contact Reotemp sales.

Looking for better accuracy?



Reotemp offers **RTDs** up to 5x more accurate than Class B RTDs with the Hi-Accuracy[™] option.

Thermocouples up to 2x more accurate with the Special Limits of Error option.

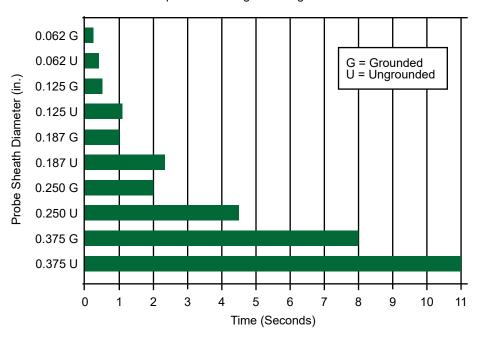


REFERENCE INFORMATION

THERMOCOUPLE TEMPERATURE OPERATING RANGES									
Туре	Minimum Temp. °F	Maximum Temp. °F							
K	-328	2300							
J	32	1400							
Т	-328	700							
E	-328	1600							
N	32	2300							
S	32	2700							
R	32	2700							
В	1600	3100							

THERMOCOUPLE TYPICAL RESPONSE TIMES

63.2% Temperature Change in an Agitated Water Bath



TEMP. LIMITS OF WIRE JACKETS								
Jacket	Temp. Limit							
PVC	221°F							
Teflon	400°F							
Fiberglass	900°F							

Customization



THERMOCOUPLE & RTD OPTIONS

		Thermocouple	RTD	Digital Thermometers	Handheld Digital			
	CERTI	FICATION OPTIONS						
-R1	1 Point Calibration Certification, Reotemp Chooses	√	√	✓	✓			
-R3	3 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓			
-C1	1 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓			
-C3	3 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓			
-cc	Certificate of Conformance	✓	✓	✓	✓			
-cs	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓			
	0	THER OPTIONS						
-VB	Hi-Vibration	N/A	✓	✓	✓			
-AC	Hi-Accuracy	N/A	✓	N/A	N/A			
-PS	Pointed Stem	✓	✓	✓	✓			
-TF	Teflon Coating	✓	✓	✓	✓			
-SS	316 SS stem	N/A	STD	✓	✓			
-NL	No Logo	✓	✓	✓	✓			
-HT	Heat Transfer Compound (2 oz)	✓	✓	✓	N/A			
-GL	Plain Glass Lens	N/A	N/A	✓	✓			
-CL	Custom Logo Dial	N/A	N/A	✓	✓			
-BP	Replacement Battery Pack	N/A	N/A	✓	✓			
-WD	White Dial	N/A	N/A	✓	✓			
-AS	Allows to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	N/A			
		TAG OPTION						
-TS	S Stainless Steel Tag (1-10 Characters) ✓							
-TM	Stainless Steel Tag (11-80 Characters)	✓						
-TP	Paper Tag			✓				
√	Indicates that the option is available with this model.							
N/A	Indicates that the option is available with this model.							
STD	Indicates standard options with no additional cost.							



Thermocouples & RTD

HEAD STYLES

All head styles are IP65 or greater. Additional head styles available, contact customer service for more information.

Head	Code	Description	NEMA Rating	IP Rating	C FM US APPROVED	∰ * ∪s	⟨£x⟩	Display	STD Conduit	Material
	A	Cast Iron Black	4	65					3/4"	Cast Iron
0	В	Cast Aluminum	4X	68					3/4"	Cast Aluminium
	E	Explosion Proof Aluminum	4X	68	✓	✓			3/4"	Cast Aluminium
	ı	Blue Epoxy Aluminum	4X	68					3/4"	Cast Aluminium
3	s	Polypropylene White	4	65					3/4"	Polypropylene
4	w	Explosion Proof Field HART Transmitter	4X	68	✓	✓	✓	✓	1/2"	Cast Aluminium
	z	Z-Temp™ Explosion Proof Aluminum	4X	66	✓	✓	✓	✓	1/2"	Cast Aluminium
	С	Polypropylene Black	4	65					3/4"	Polypropylene
	G	316SS	4X	65					3/4"	316SS
	н	Aluminum Flip Top	4	65					3/4"	Cast Aluminium
	J	Explosion Proof 316SS	4X	65	✓	✓			3/4"	316SS
100	т	ATEX Explosion Proof Aluminum	4X	68	✓	✓	✓		1/2"	Cast Aluminium
	L	Explosion Proof Epoxy Coated Aluminium	4X	68	✓	✓			3/4"	Cast Aluminium
	D	Mini Cast Aluminum	4	65					3/4"	Cast Aluminium
	К	Polished 316SS Knurl	4X	65					1/2"	316SS
	P	DIN Black Polypropylene	4	65					3/4"	Polypropylene
	U	Hi-dome Aluminum Fliptop	4	65					3/4"	Cast Aluminium
	V	Ball-dome Aluminum Fliptop	4	65					3/4"	Cast Aluminium