

## SANITARY THERMOCOUPLE HEAD ASSEMBLY

Reotemp's Sanitary Thermocouple Head Assemblies are designed for direct insertion into sanitary tri-clamp systems and applications. Their 3-A approved 316 stainless steel wetted surfaces are highly polished to reduce the risk of unsanitary conditions. Reotemp Sanitary Thermocouple Head Assemblies are highly customizable and available configured with optional transmitters.



Certified



Made in USA

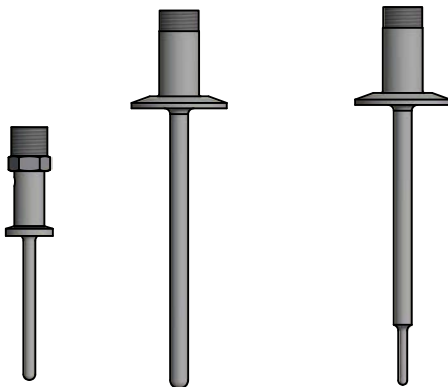


### FEATURES / BENEFITS

- 3-A Approved 316SS Wetted Surfaces (Ra 32 Max.)
- 3-A Certificate Included
- Sanitary Tri-clamp Design
- Optional Transmitter
- Fully Sealed for Washdown (IP67)

### SPECIFICATIONS

<b>Accuracy</b>	Type K: $\pm 2.2^{\circ}\text{C}$ or $\pm 0.75\%$ Type J: $\pm 2.2^{\circ}\text{C}$ or $\pm 0.75\%$ Type T: $\pm 1.0^{\circ}\text{C}$ or $\pm 0.75\%$ Type E: $\pm 1.7^{\circ}\text{C}$ or $\pm 0.5\%$
<b>Thermocouple</b>	Type J, K, T, or E
<b>Transmitter (Optional)</b>	4-20mA or HART
<b>Temperature Range</b>	Type K: -328/2,300°F Type J: 32/1,400°F Type T: -328/1,600°F Type E: -328/1,600°F
<b>Process Connection</b>	Tri-Clamp: 1.5", 2", 2.5", 3", 4" or 3/4"
<b>Wetted Finish</b>	Ra 32 Max. / Ra 20 Max.(Optional)
<b>Stem Length</b>	2" to 36" Standard Lengths; Custom Lengths Available.
<b>Enclosure Head</b>	White Poly, Blue Epoxy-Coated Aluminum, 316SS, Others Available.
<b>Straight Stem Diameters</b>	1/4", 3/8", 3/16", 1/8"
<b>Reduced Stem Diameters</b>	3/8" Reduced to 3/16" Tip, 1/2" Reduced to 1/4" Tip



Straight Stem

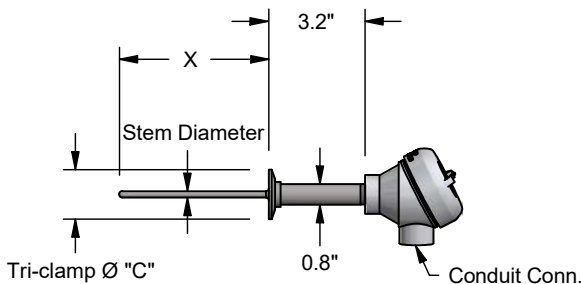
Fast Response

## SANITARY THERMOCOUPLE HEAD ASSEMBLY

**BUILD YOUR ASSEMBLY:** Choose options to build a part number. For example: THS-T15A025-KUS-TS

TH	S			-T15	A
MODEL	CONNECTION HEAD	HEAD OPTIONS	TRANSMITTER (OPTIONAL)	PROCESS CONNECTION	STEM DIAMETER
<b>TH</b> = Sanitary Thermocouple Head Assembly	<b>S</b> = Poly White <b>I</b> = Blue Epoxy-Coated Aluminum <b>G</b> = 316SS <b>Z</b> = Z-Temp Explosion Proof Head with 3 Digit LED Display and 1/2" Conduit <b>L004T</b> = No Head, 1/2" MNPT with 4" of Teflon Leads, Stripped  Additional Heads Available See Page 56.	= 3/4" NPT (Leave Blank) <b>H</b> = 1/2" NPT Conduit <b>N</b> = No Terminal Block	= None <b>X</b> = 4-20 mA (Standard) <b>R</b> = 4-20 mA HART Protocol  <i>Z-Temp Only Options</i> <b>B</b> = 4-20 mA Transmitter with Display <b>Y</b> = 4-20 mA HART Transmitter with Display	<b>-T15</b> = 1.5" Tri-Clamp <b>-T20</b> = 2" Tri-Clamp <b>-T25</b> = 2.5" Tri-Clamp <b>-T30</b> = 3" Tri-Clamp <b>-T40</b> = 4" Tri-Clamp <b>-T75</b> = 3/4" Tri-Clamp  See chart below to confirm Tri-Clamp dimensions.	<i>Straight Stems</i> <b>A</b> = 1/4" Diameter <b>F</b> = 3/8" Diameter <b>D</b> = 3/16" Diameter <b>H</b> = 1/8" Diameter  <i>Fast Response Stems</i> <b>B</b> = 3/8" Diameter Reduced to 3/16" Tip <b>C</b> = 1/2" Diameter Reduced to 1/4" Tip

025	-K	U	S2	-TS
STEM LENGTH "X"	THERMOCOUPLE TYPE	TYPE OF JUNCTION	NUMBER OF ELEMENTS	OPTIONS
<b>025</b> = 2.5" Stem <b>030</b> = 3" Stem <b>040</b> = 4" Stem <b>060</b> = 6" Stem <b>090</b> = 9" Stem <b>???</b> = Enter Custom Stem Length In Inches, Up to 72"	<b>J</b> = Type J Thermocouple <b>K</b> = Type K Thermocouple <b>T</b> = Type T Thermocouple <b>E</b> = Type E Thermocouple	<b>G</b> = Grounded Element <b>U</b> = Ungrounded Element <b>UU</b> = Ungrounded Uncommon	<b>S2</b> = Single Element <b>D4</b> = Dual Element	<b>-TS</b> = Stainless Steel Tag <b>-RA</b> = Ra 20 Max Wetted Finish with Certificate <b>-R3</b> = Calibration Certification, 3 Points (32°F, 100°F, 190°F) <b>-R1</b> = Calibration Certification, 1 Point (100°F) <b>-C3</b> = Calibration Certification, 3 Points (Customer Picks) <b>-C1</b> = Calibration Certification, 1 Point (Customer Picks)  For additional options see page 157.



Tri-Clamp Size	Diameter "C"	
	in	mm
3/4"	0.984	25
*1.5"	1.984	50.4
2"	2.516	63.9
2.5"	3.047	77.4
3"	3.579	90.9
4"	4.682	118.9

\*1.5" tri-clamp fits 1.5" and 1" tri-clamp fittings

SANITARY

## 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				Display	STD Conduit	Material
	A	Cast Iron Black	4	65					3/4"	Cast Iron
	B	Cast Aluminum	4X	68					3/4"	Cast Aluminium
	E	Explosion Proof Aluminum	4X	68	✓	✓			3/4"	Cast Aluminium
	I	Blue Epoxy Aluminum	4X	68					3/4"	Cast Aluminium
	S	Polypropylene White	4	65					3/4"	Polypropylene
	W	Explosion Proof Field HART Transmitter	4X	68	✓	✓	✓	✓	1/2"	Cast Aluminium
	Z	Z-Temp™ Explosion Proof Aluminum	4X	66	✓	✓	✓	✓	1/2"	Cast Aluminium
	C	Polypropylene Black	4	65					3/4"	Polypropylene
	G	316SS	4X	65					3/4"	316SS
	H	Aluminum Flip Top	4	65					3/4"	Cast Aluminium
	J	Explosion Proof 316SS	4X	65	✓	✓			3/4"	316SS
	T	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
	K	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

## THERMOCOUPLE & RTD OPTIONS

		Thermocouple	RTD	Digital Thermometers	Handheld Digital
<b>CERTIFICATION OPTIONS</b>					
<b>-R1</b>	1 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
<b>-R3</b>	3 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
<b>-C1</b>	1 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
<b>-C3</b>	3 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
<b>-CC</b>	Certificate of Conformance	✓	✓	✓	✓
<b>-CS</b>	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓
<b>OTHER OPTIONS</b>					
<b>-VB</b>	Hi-Vibration	N/A	✓	✓	✓
<b>-AC</b>	Hi-Accuracy	N/A	✓	N/A	N/A
<b>-PS</b>	Pointed Stem	✓	✓	✓	✓
<b>-TF</b>	Teflon Coating	✓	✓	✓	✓
<b>-SS</b>	316 SS stem	N/A	STD	✓	✓
<b>-NL</b>	No Logo	✓	✓	✓	✓
<b>-HT</b>	Heat Transfer Compound (2 oz)	✓	✓	✓	N/A
<b>-GL</b>	Plain Glass Lens	N/A	N/A	✓	✓
<b>-CL</b>	Custom Logo Dial	N/A	N/A	✓	✓
<b>-BP</b>	Replacement Battery Pack	N/A	N/A	✓	✓
<b>-WD</b>	White Dial	N/A	N/A	✓	✓
<b>-AS</b>	Allows to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	N/A
<b>TAG OPTION</b>					
<b>-TS</b>	Stainless Steel Tag (1-10 Characters)			✓	
<b>-TM</b>	Stainless Steel Tag (11-80 Characters)			✓	
<b>-TP</b>	Paper Tag			✓	
✓	Indicates that the option is available with this model.				
N/A	Indicates the option is not available with this model.				
STD	Indicates standard options with no additional cost.				