

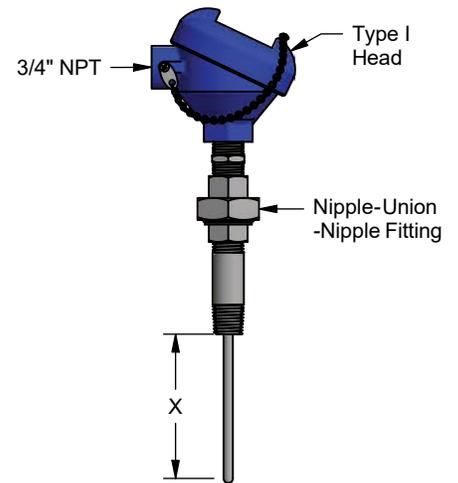
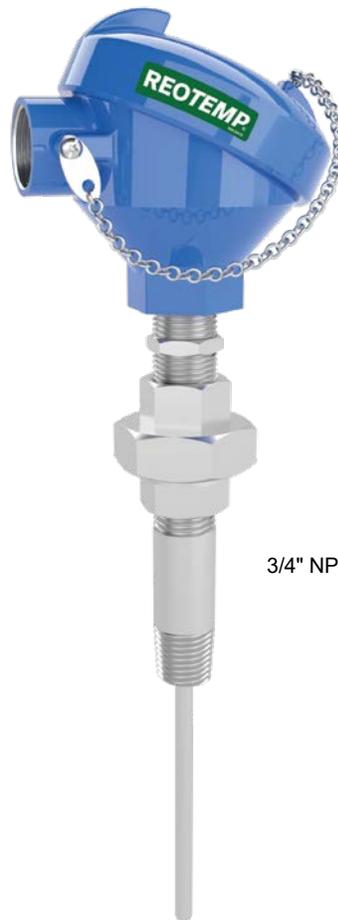
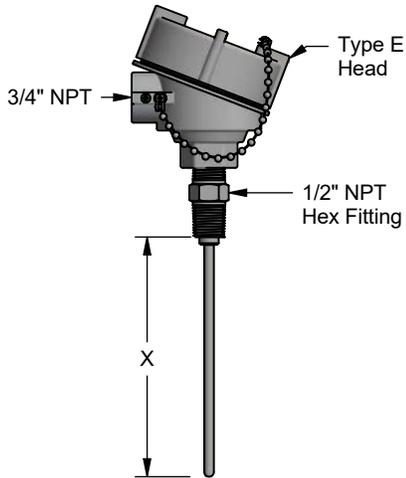
RTD HEAD ASSEMBLY

Reotemp offers a large selection of RTD Head Assemblies featuring explosion proof, corrosion resistant, LED Display, and many other head options. Head assemblies can be configured with a HART or 4-20 mA transmitter.



Made in USA

RTD



RTD HEAD ASSEMBLY

BUILD YOUR HEAD ASSEMBLY: Choose options to build a part number. For example: B1TPX1256X

B
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HEAD STYLE

Head	Code	Description	Ratings	FM APPROVED	SP	Ex	Display	Standard Conduit
	A	Cast Iron Black	NEMA 4					3/4"
	B	Cast Aluminum	NEMA 4X					3/4"
	E	Explosion Proof Aluminum	NEMA 4X	✓	✓			3/4"
	I	Blue Epoxy Aluminum	NEMA 4X					3/4"
	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"
	T	ATEX Explosion Proof Aluminum	NEMA 4X	✓	✓	✓		1/2"
	L	Explosion Proof Epoxy Coated Aluminium	NEMA 4X	✓	✓			3/4"

See page 49 for additional head style options.



HEAD OPTIONS (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 x 1.5"
- N** = No Terminal Block

TRANSMITTER (OPTIONAL)

- 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

RTD HEAD ASSEMBLY

1T
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PX
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THREADED CONNECTIONS

RTD SENSOR

- All have 1/2" NPT male unless noted.
- Use a spring loaded connection with a thermowell.
- Use a welded connection when the stem goes directly into the process medium.
- All threaded connections have 316 stainless steel fittings.

Threaded Connections

- 1T** = Spring-loaded 316SS Hex Bushing
- 4T** = 5" Nominal Spring Loaded Nipple-Union-Nipple 316SS
- 2T** = 2.5" Spring Loaded Nipple 316SS
- 7T** = Spring Loaded Explosion Proof Bushing 316SS
- 5T** = Nipple-Union-Nipple Spring Loaded Explosion Proof Bushing, Explosion Proof Union

Other Nipple-Union-Nipple

- 4T3** = 3" Nominal Spring Loaded N-U-N
- 4T4** = 4" Nominal Spring Loaded N-U-N
- 4T6** = 6" Nominal Spring Loaded N-U-N
- 4T7** = 7" Nominal Spring Loaded N-U-N

Other Nipples

- 2T3** = 3" Spring Loaded Nipple
- 2T4** = 4" Spring Loaded Nipple
- 2T5** = 5" Spring Loaded Nipple
- 2T6** = 6" Spring Loaded Nipple
- 2T7** = 7" Spring Loaded Nipple
- 2T8** = 8" Spring Loaded Nipple

Welded Fittings

- 1F** = Welded Hex Bushing 316SS
- 4F** = Nipple-Union-Nipple Welded 316SS
- 6F** = Stainless Steel Bushing, 1/2" NPT, No Process Threads

Special Fittings

- 8T** = Spring Loaded Terminal Block, No Fitting 1/2" NPT Female Head Opening

Welded Fittings with Compression Fitting Loose on Stem

- 6FT** = SS Welded Bushing with 1/4" NPT Comp Fitting "Set Once" Loose On Stem
- 6FU** = SS Welded Bushing with 1/2" NPT Comp Fitting "Set Once" Loose On Stem
- 6FV** = SS Welded Bushing with 1/8" NPT Comp Fitting "Set Once" Loose On Stem

Type	Code	Material/Class	Ω at 0°C	Accuracy at 0°C(Ω)
Standard DIN B Platinum 100 Ω	PX*	Pt/385/B	100 Ω	\pm 0.12%
Platinum 100 Ω with Other Accuracies	PA*	Pt/385/A	100 Ω	\pm 0.06%
	PD*	Pt/385/A3	100 Ω	\pm 0.03%
	PE*	Pt/385/A5	100 Ω	\pm 0.01%
Other RTDs	PK*	Pt/385/B	1000 Ω	\pm 0.12%
	PH*	Pt/385/A	1000 Ω	\pm 0.06%
	PM	Pt/385/B	500 Ω	\pm 0.12%
	PY*	Pt/392	100 Ω	\pm 0.10%
	NI	Nickel/6725	120 Ω	\pm 0.50%
CU	Copper/421	10 Ω at 25°C	\pm 0.50% at 25°C	

*Available in Reotemp Extended temperature RTDs.

RTD

Connection Types		
6FT, 6FU, 6FV	Compression Fitting	
6F	No Process Threads	

Connection Types		
1T, 7T, 1F	Hex Bushing	
2T	Pipe Nipple	
4T3, 4T, 5T, 4F, etc.	Nipple-Union-Nipple (N-U-N)	

1
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25
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6
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X
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-TS
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TEMPERATURE RANGE	STEM DIAMETER	STEM LENGTH "X"	NUMBER OF LEADS/RTDs	OPTIONS
1 = -328°F/400°F (Standard) 2 = Extended Range -328°F/1100°F (Only Available on PX, PA, PD, PE, PK, PH, or PY RTDs)	25 = 0.250" 12 = 0.125" 18 = 0.188" 37 = 0.375"	? = Stem Length in Inches (See "X" length drawings on page 54.)	X = Single 3-wire XX = Duplex 3-wire Y = Single 4-wire YY = Duplex 4-wire W = Single 2-wire WW = Duplex 2-wire	-TS = Stainless Tag -R1 = One Point Calibration Certification (Reotemp Chooses) -R3 = Three Point Calibration Certification (Reotemp Chooses)

For additional options see page 147.

For thermowells see pages 140-146.

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
CERTIFICATION 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)	✓	✓	✓	✓
OTHER 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	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 the option is not available with this model.
STD	Indicates standard options with no additional cost.