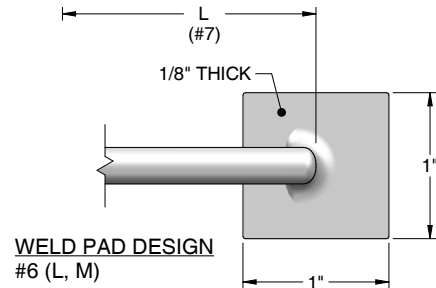


# INDUSTRIAL AND MINIATURE THERMOCOUPLES

#1	DESCRIPTION [6, 7]
1	Thermocouple
#2	TYPE [8,9,10]
---	J,T,K,E,N,X (Other, Specify)
#3	LIMITS OF ERROR/ELEMENT CONSTRUCTION
1	Standard Single 6 Standard Triple
2	Standard Dual X Other, specify
3	Special Single
4	Special Dual



WELD PAD DESIGN #6 (L, M)

Many more options available at [JMS-SE.com](http://JMS-SE.com)

**Note:** For hollow tube sensors or sensors requiring a factory bend, see pages 2-1 and 2-2.

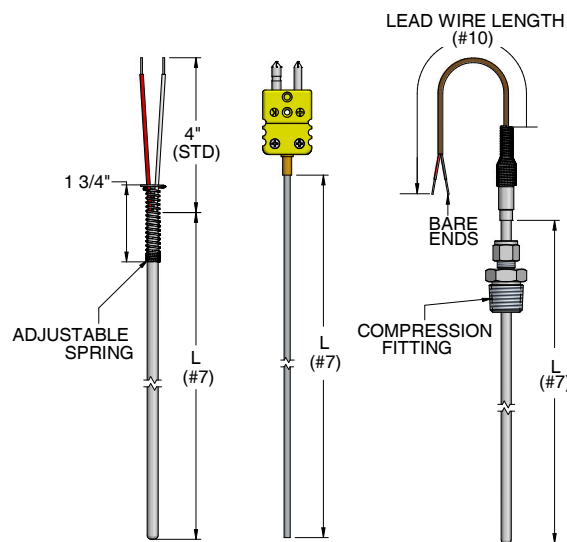
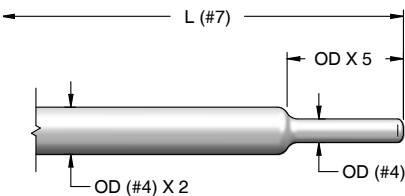
[ ] Brackets indicate page numbers where additional helpful information can be found in technical catalog. Now available online at [www.JMS-SE.com/TechnicalCatalog](http://www.JMS-SE.com/TechnicalCatalog)

#4	OUTSIDE DIAMETER [1-11]			CONDUCTOR SIZE (FOR BASE METALS ONLY)							
	OD	Single	Dual	OD	Single	Dual	OD	Single	Dual		
P	1/2"	10	12	R	6mm	16	18	F	1/25"	32	34
A	3/8"	13	16	C	3/16"	19	20	X*	Other, specify		
Y	5/16"	14	16	D	1/8"	22	24	*JMS now offers sheath as small as 0.010" diameter			
B	1/4"	16	18	E	1/16"	28	30				

#5	SHEATH MATERIAL [11]	MAX °F [2-8, 4-17]	MAX °F
H	304 stainless steel	1650	C Teflon coated stainless steel 400
J	310 stainless steel	2100	S Titanium 400
V	STABALOY	2220	Q Hastelloy C-276 800
K	316 stainless steel	1650	P Pyrosil 2300
M	Inconel 600	2100	X Other, specify

#6	MEASURING JUNCTION [1-12, 13, 14, 15]		
G	Grounded	P Reduced tip, grounded	
U	Ungrounded	Y Reduced tip, ungrounded	
E	Exposed (isolated on dual/triple)	R Gas/air, exposed	
I	Isolated	S Gas/air, grounded	
J	Pointed tip, grounded 45°	T Gas/air, ungrounded	
K	Pointed tip, ungrounded 45°	V* Enlarged tip, grounded	
L	Weld pad, grounded (Flat)	W* Enlarged tip, ungrounded	
M	Weld pad, ungrounded (Flat)	X Other, specify	
N	Weld pad, removable grounded	*Provide length and enlarged diameter description when selecting these options.	
O	Weld pad, removable ungrounded	<b>Note:</b> For options N, NF, O, & OF Fastrax (aka removable weld pad) designs, refer to 4-11.	
NF	Removable, "foot" only, grounded		
OF	Removable, "foot" only, ungrounded		

REDUCED TIP DESIGN #6 (P,Y)



**Note:** L is the overall length of the sensor to the transition, wire, plug, head, or fixed attaching device. L excludes non-fixed attaching devices.

1	J	1	B	H	G	12"	S
---	---	---	---	---	---	-----	---

1-1

**NEW** Skip to page 1-3 to complete selection #8 if your sensor requires a nipple and/or union extension.

#8	STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6-13]	
X	Other, specify	
Z	N/A	No attaching device
G	Single thread (process)	Welded design
F	Single thread (reversed)	
W	Double threaded	
H*	SS w/ SS ferrule	Compression design
I*	SS w/ Teflon ferrule	
J*	SS w/ Lava ferrule	
K*	SS w/ Nylon ferrule	
L*	Brass w/ Brass ferrule	
D	Single threaded (process)	Spring-loaded design
C	Double threaded w/ oil seal	
A	Double w/ threaded retainer	
E	Adjustable spring	
S	Double threaded (most common)	
B	Double threaded Bayonet	
BS*	Double threaded Bayonet w/ oil seal	
BD	Single threaded Bayonet	* Not recommended for sensors Ø > 1/4"
BDS*	Single threaded Bayonet w/ oil seal	

OR	S	{	U	N	6"	H	1	}
----	---	---	---	---	----	---	---	---

SEE PAGE 1-3

# INDUSTRIAL AND MINIATURE THERMOCOUPLES

#9	PROCESS CONNECTION SIZE & TYPE [1-3]		<b>Note:</b> Threaded bushing may be used for sizes larger than 1/2" NPT		
L	1/8" NPT	O	3/4" NPT	X	Other, specify N/A
M	1/4" NPT	J	1" NPT	Z	
A	3/8" NPT	T	1 1/4" NPT		
P	1/2" NPT (Standard) w/ symbols W,S,C, & N from selection #8	Y	1 1/2" NPT		

#10	LEAD WIRE TYPE & LENGTH IN INCHES [SEE SECTION 7]	
Z	No lead wires	Solid 20 AWG
1"	Fiberglass braid	
2"	PVC	
3"	Teflon	
4"	Hi-temp fiberglass braid	
5"	Kapton	
7"	Bare wire (AWG per #4)	
8"	PVC coil cord (Relaxed length) (4" standard length for in head bayonet sensors)	
S9"	Teflon ultra premium Type T, stranded 22 AWG	
X"	Other, specify	

**Note:** Add an S prefix to your selection to designate stranded wire. Preferred for high vibration applications with lead wires > 6". Example: S312= 12" stranded Teflon lead wire. 24 AWG or smaller may be used to accommodate some smaller diameters and flex armor extensions.

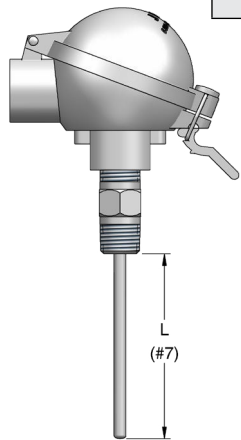
#11	ARMOR OR HEAT SHRINK [7-7,16]		A special armor adapter is used when flex armor is longer than 60".	
A	SS flex armor	J	Aluminum mylar shielded and jacketed to match primary insulation	
B	SS flex armor teflon coated white	Z	N/A	
C	SS flex armor teflon coated black	K	SS overbraid, drain, & yellow Teflon jacket overall, 20 AWG stranded (Type K only)	
D	Small 1/8" ID SS flex armor	X	Other, specify	
F	SS overbraid			
G	Heat shrink/sleeving			
H	Jacket to match primary insulation			

#12	TYPE OF TRANSITION [1-16]	
H	Heat shrink	<b>Note:</b> For high humidity/moisture environments (< 500°F), put a 2 after your selection. For example, R2.
S	Size on size	
T	3/8" OD (Standard)	<b>Note:</b> For high temperatures at the transition area (500°F - 1200°F), put a 3 after your selection. For example, T3.
R	1/4" OD	
X	Other, specify	
Z	No transition	

#13	COLD END TERMINATION Choose as many as applicable (Additional options see Pg. 1-7) (Visit our online catalog for additional terminations, <a href="http://www.JMS-SE.com/ends">www.JMS-SE.com/ends</a> )		
Connectors		Heads [6-1] visit <a href="http://www.JMS-SE.com/headspecs">www.JMS-SE.com/headspecs</a>	
B	Miniature plug	Exp. Proof	
C	Standard plug		
F	High temperature plug (< 800°F)		
WM	Microphone style plug (6DA)		
D	Miniature jack		
E	Standard jack		
G	High temperature jack (<800°F)		
WF	Microphone style jack (6DA)		
Transmitters			Gen. Purpose
8H	Isolated transmitter		
8N	Non-isolated transmitter		
8I	Hart protocol		
8E	Intrinsically safe		
8D	Hart/intrinsically safe		
8PS	Indicating with SS Exp. housing		
8PA	Indicating with Alum Exp. housing		
		Other	
A	Bare ends		
K	Spade lugs (6SL)		
O	Open terminal block (6B4)		
X	Other, specify		

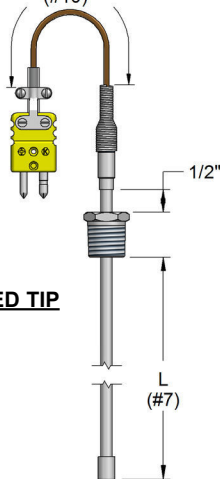
#14	OPTIONS Use only if applicable [INTRODUCTION]	
Marking / Tagging		Calibration Options
1	Stainless steel tag	5 Calibrate at specified point(s). Corrections data provided for each point.
2	Plastic tag	5L* Standard lot calibration
3	Paper tag	5M Material calibration report.
4	Laser etch on probe	6** Premium calibration report. Corrections data will be provided for temperatures within the range.
7	CE marking [page XV]	6L Premium lot calibration report. Corrections data will be provided for temperatures within the range.
T	Calibration Tag	
		Certifications
		8*** Guide 17025 calibration certification
		M MTR (sheath / tubing / measuring junction components)
		Other Options
		B Head mounting bracket
		S Ship straight (Do not coil)
		X Other, specify

\* AMS 2750D/E/F compliant  
 \*\* Must specify increments & range (Example: 0 to 300°F, 10° increments)  
 \*\*\* Must choose calibration option other than 5M



**Note:** L is the length of the sensor to the fixed attaching device.

LEAD WIRE LENGTH (#10)



**ENLARGED TIP #6 (V,W)**

<b>COMPLETE PART NUMBER EXAMPLES</b>					
P	Z	Z	Z	L	1
• With nipple-union-spring-loaded extension assembly: <b>1J1BHG12"S[UN6H1]PZZZL1</b> • Without extension assembly: <b>1J1BHG12"SPZZZL1</b>					

# CUSTOM NIPPLE/UNION EXTENSION CONFIGURATOR

An extension assembly provides extra length extending the sensor head past insulation and away from heat. Standard unions are 1/2" FNPT on both ends. The union joins two nipples in an extension assembly and has a standard pressure rating of 150 PSIG.

When a nipple-union-nipple assembly is selected and spring-loading of the thermocouple element is required, there are two different methods of spring-loading the sensor. JMS's standard, recommended method is to use the machined 1/2" x 1/2" NPT spring-loaded stainless steel fitting as one of the nipples. With this design, the probe is secured within the fitting and mounted to the head in a rigid manner instead of spring-loading against a terminal block, as is the case with a standard nipple-union-nipple. Due to stress exerted by spring, selection #8, option N "nipple" should never be used with an in-head transmitter. Any of the other options within option #8 are compatible with in-head transmitters.

**Notes:**

- The standard JMS spring designed specifically for a 1/4" OD sensor is made of high nickel proprietary spring wire which allows users to successfully maintain 1/2" of spring-loading even up to 1000°F.
- Spring-loaded extension assemblies should not be used with ceramic protection tubes.

		#8	COLD SIDE STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6-13]		
		X	Other, specify		<p>STANDARD ATTACHING DEVICE (ALREADY SELECTED IN #8)</p>
		Welded design	G	Single Thread (Process)	
		H2 I2 J2 K2 L2	SS w/ SS ferrule SS w/ Teflon ferrule SS w/ Lava ferrule SS w/ Nylon ferrule Brass w/ Brass ferrule		<p>MOST COMMON</p> <p>** L is the overall length of the sensor to the fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</p>
		Spring-loaded design	D	Single threaded	
		#8.1	UNION		<p>UNION (#8.1)</p>
		U O X	Union Coupling Other, specify		
		<p><b>Note:</b> Thread adapters may be used when symbol #9 is not 1/2" NPT.</p>			
		#8.2	PROCESS FITTING (MALE)		<p>PROCESS FITTING (#8.2)</p>
		N X Z	Nipple Other, specify N/A (female thread)		
		<p><b>Note:</b> Thread adapters may be used when symbol #9 is not 1/2" NPT.</p>			
		#8.3	N LENGTH		<p>N (#8.3)</p>
		" Z	Specify (Inches)* N/A (female thread)		
		<p>* ONLY for configurations with nipples (option N for selection #8 or #8.2) ALL other configurations have fixed lengths and this selection is not applicable.</p>			
		#8.4	UNION and/or NIPPLE MATERIAL		
		H K C G	304 stainless steel <input checked="" type="checkbox"/> X    Other, specify 316 stainless steel Black steel Galvanized steel		
		#8.5	UNION PRESSURE RATING		
		1 2 3 X	#150 - A351 spec (Standard) #3000 - A182 spec #6000 - A182 spec Other, specify		
					ASTM

**Note:** High nickel proprietary spring material is rated to 1000°F. (For 1/4" Ø sensors)

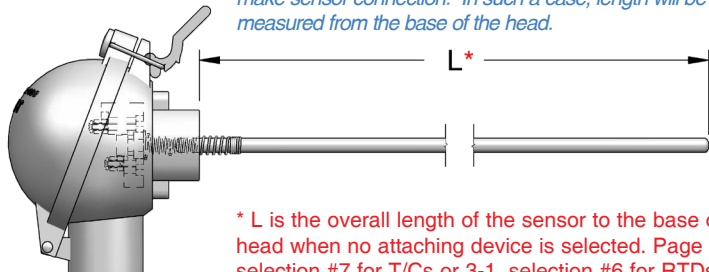
S { U N 6" H 1 }

Continue on to the "PROCESS NPT" selection to finish creating your sensor part number. Selection #9 on page 1-2 (thermocouples) and 3-2 (RTDs).

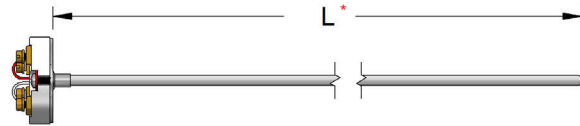
# ADDITIONAL TERMINATIONS

**COLD END TERMINATION** [SEE SECTION 6] Choose as many as applicable (**JMS part number prefixes are shown in parenthesis**)

Connectors	
<p style="text-align: center;"><b>Plugs</b></p> <p>B Miniature plug (6A1B)                      BH Miniature high temperature plug (6A2B) &lt;800°F                      C Standard plug (6A1C)                      F Standard high temperature plug (6A2C) &lt;800°F                      WM Microphone style plug (6DA)                      WA Solid pin plug, heavy duty (6A3C)                      WC Jab in plug (6A4C)                      WE Ultra high temperature plug, glazed (6A5C) &lt;1200°F                      WH Ultra high temperature plug, unglazed (6A7C) &lt;1200°F                      WJ Low noise plug (6A6C) &lt;425°F                      WL DIN-IEC microphone plug (6DB)                      V Molded/water resistant plug (6DC)                      Y M12 Male connector (6DY)                      WQ Miniature locking plug (6A8B2)                      WS Standard plug, locking (6A8C2)</p>	<p style="text-align: center;"><b>Jacks</b></p> <p>D Miniature jack (6A1D)                      DH Miniature high temperature jack (6A2D) &lt;800°F                      E Standard jack (6A1E)                      G Standard high temperature jack (6A2E) &lt;800°F                      WF Microphone style jack (6DA)                      WB Solid pin jack, heavy duty (6A3E)                      WD Jab in jack (6A4E)                      WG Ultra high temperature jack, glazed (6A5E) &lt;1200°F                      WI Ultra high temperature jack, unglazed (6A7E) &lt;1200°F                      WK Low noise jack (6A6E) &lt;425°F                      WN DIN-IEC microphone style jack (6DB)                      VF Molded/water resistant jack (6DC)                      YF M12 Female connector (6DY)                      WR Miniature locking jack (6A1DL2)                      WT Standard jack, locking (6A8E2)</p>

Heads [6-1] Visit <a href="http://www.JMS-SE.com/headspecs">www.JMS-SE.com/headspecs</a>	
<p style="text-align: center;"><b>Explosion Proof</b></p> <p>I Aluminum, NEMA 4X, FM, CSA, IP68 (6IA)                      J 316 stainless steel, NEMA 4X, FM, CSA, IP68 (6ISS)                      P Aluminum, NEMA 4X, FM, CSA, ATEX, IECEx, IP68 (6IAIEC)                      U 316 stainless steel, NEMA 4X, ATEX, IP68 (6ISSATEX)                      SI Cast Iron, NEMA 3, 4, UL, CSA (6I)                      GA Aluminum, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688A1)                      GS 316SS, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688S1)</p> <p style="text-align: center;"><b>General Purpose</b></p> <p>L Aluminum w/ hinged cover (6L)                      M Aluminum w/ screw cover &amp; chain (6M)                      R Aluminum w/ hinged high dome cover (6R)                      N Cast Iron w/ screw cover (6N)                      Q Black plastic (6Q)                      SS 316 stainless steel w/ screw cover &amp; chain (6SS)                      WP White plastic, screw cover, Sanitary (6WP)                      SB Nickel plated, cylinder style, 1/4" NPT (6S250)                      SD Nickel plated, cylinder style, 1/8" NPT (6S125)                      SC Stainless steel, socket cap style                      ST Molded plastic, mini head, 1/4" NPT, &lt; 350F (6T)                      SU Molded plastic, mini head, 1/4" NPT, &lt; 800F (6U)</p>	<p style="text-align: center;"><i>Some applications may have pre-existing threaded pipes or protection tubes where no attaching device is needed to make sensor connection. In such a case, length will be measured from the base of the head.</i></p>  <p style="text-align: center;"><b>* L is the overall length of the sensor to the base of the head when no attaching device is selected. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</b></p>

Transmitters [ 8-1 to 8-3 ]			
<b>Notes:</b> - Add span range after transmitter selection. Example: 8H(0-200C). - Transmitter output = 4 - 20 mA. (See section 8 for other options).			
8H	Isolated transmitter	8PA	Explosion proof, IP66/IP68, NEMA 4X, ATEX/IECEx, FM/CSA, Aluminum, threaded cap with glass viewing window, touch programmable [ 8-2 ]
8N	Non-isolated transmitter		
8I	Hart Protocol	8PS	Explosion proof, IP66/IP68, NEMA 4X, ATEX/IECEx, FM/CSA, 316 SS, threaded cap with glass viewing window, touch programmable [ 8-2 ]
8E	Intrinsically safe		
8D	Hart/Intrinsically safe		
8M	Integral transmitter (see page 3-5)		<b>RTDs ONLY</b>

Other	
<p>A Bare ends                      K Spade lugs (6SL)                      RL Ring lugs (6RL)                      O Open ceramic terminal block, brass screw terminal (6B)                      OA Open Bakelite terminal block, nickel plated screw terminal (6BB)                      OB Open ceramic terminal block for sensors with bayonet style connection, brass screw terminal (6B or 6C)                      OG Ceramic terminal block, brass screw terminal (6G)                      OP Pluggable polyimide terminal block, nickel plated screw terminal (6PT)                      OS Open ceramic terminal block, nickel plated solder terminal (6C)                      CG Cord connector/grip, aluminum 1/2" NPT (6CC)                      TB Conduit bushing, 3/4" NPT male X 1/2" NPT female, plated steel (6IRB)                      X Other, specify</p>	 <p style="text-align: center;"><b>* L is the overall length of the sensor to the base of the terminal block mounting plate when open terminal block cold end termination is selected without a fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</b></p>

# RESISTANCE TEMPERATURE DEVICES (RTDS)

#1	DESCRIPTION					
3	RTD					
#2	ELEMENT TYPE [3-4, 9, 10, 11, 15, 18, 22, 24]		100 Ω Platinum 0.00385 alpha (Ω/Ω°C) unless otherwise stated			
B	Resistor Accuracy at 0°C		Thermometer Class [pg. 3-18]	Resistor Class [pg. 3-18]		
E	± 0.30°C (Competitor's Std)		B	≥ F 0.3		
P*	± 0.15°C (Standard)		A	≥ F 0.15		
S*	± 0.06°C		AA	≥ 1/2 F 0.1		
S*	± 0.03°C (Best Accuracy)		1/4 A	≥ 1/10 W 0.3		
N	± 0.74°C (120 Ω Nickel α=0.00672)		Non-Standard	Non-Standard		
M	± 0.30°C (1000 Ω)		B	≥ F 0.3		
X	Other, specify [3-22]		--	--		
#3	ELEMENT CONSTRUCTION [4]					
S	Single	Standard construction	SV	Single	High vibration construction	
D	Dual	Standard construction	DV	Dual	High vibration construction	
J	Single	Swaged construction				
K	Dual	Swaged construction				
X	Other, specify		<b>Note:</b> Use swaged for high temperature, bendability, and/or longer than 90".			
#4	TUBE DIAMETER MUST CHOOSE 1		TIP CONSTRUCTION [1-13] MUST CHOOSE 1			
P	1/2" (.500")	D	1/8" (.125")	N	Normal, closed tip (Standard)	
A	3/8" (.375")	X	Other, specify	K	Pointed tip, 45°	
Y	5/16" (.313")	Z	N/A	M	Weld pad	
B	1/4" (.250")				O	Weld pad, removable
R	6mm (.236")				R2	Gas/Air, exposed
C	3/16" (.188")				W*	Enlarged tip
				Y2	Reduced tip	
				X	Other specify	
<b>* Provide length and enlarged diameter description when selecting this option.</b>						

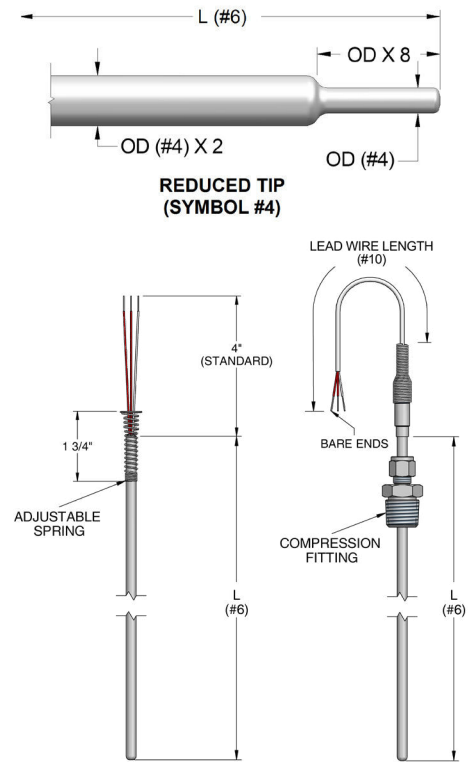
[ ] Brackets indicate page numbers where additional helpful information can be found in our technical catalog. Now available online at [www.JMS-SE.com/TechnicalCatalog](http://www.JMS-SE.com/TechnicalCatalog)

#5	TUBE MATERIAL [3-11, 3-13]				
K	316 stainless steel		C	Teflon coated, stainless steel	
L	316L stainless steel		S	Titanium	
M	I-600 (Use if symbol #7 >500°F)		Q	Hastelloy C-276	
			X	Other, specify	

#6	LENGTH (L) (See illustrations on pages 3-1 and 3-2 for "L" dimension)				
"	Immersion length in inches (lengths greater than 90" may be coiled for shipment)				

#7	MAX TEMPERATURE AT WHICH TIP WILL BE EXPOSED				
A	<0°C (32°F) Cryogenic = 5 Kapton				
B	<200°C (392°F) = 3 Teflon*				
C	<288°C (550°F) = 5 Kapton*				
D	<350°C (662°F) = 1 Fiberglass*				
E	<660°C (1220°F) = 4 High temperature fiberglass*				
<b>*If no transition (Z) is in symbol 13, we recommend these corresponding selections for primary wire insulation on hollow tube sensors.</b>					

**NEW** Skip to page 1-3 to complete selection #8 if your sensor requires a nipple and/or union extension.



#8	STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6-13]				
X	Other, specify				
Z	N/A		No attaching device		
G	Single thread (process)		Welded design		
F	Single thread (reversed)				
W	Double threaded				
H*	SS w/ SS ferrule		Compression design		
I*	SS w/ Teflon ferrule				
J*	SS w/ Lava ferrule				
K*	SS w/ Nylon ferrule				
L*	Brass w/ Brass ferrule				
D	Single threaded (process)		Spring-loaded design		
C	Double threaded w/ oil seal				
A	Double w/ threaded retainer				
E	Adjustable spring				
S	Double threaded (most common)				
B	Double threaded bayonet				
BS	Double threaded bayonet w/ oil seal				
BD	Single threaded bayonet				
BDS	Single threaded bayonet w/ oil seal				

**Note:** L is the overall length of the sensor to the transition, wire, plug, head, or fixed attaching device. L excludes non-fixed attaching devices.

OR → S { U N 6" H 1 }  
SEE PAGE 1-3

# RESISTANCE TEMPERATURE DEVICES (RTDS)

<b>#9</b>	<b>PROCESS CONNECTION SIZE &amp; TYPE [3]</b>		
L	1/8" NPT	O	3/4" NPT
M	1/4" NPT	X	Other, specify
A	3/8" NPT	Z	N/A
P	1/2" NPT (Standard)		

**Note:** Threaded bushing may be used for sizes larger than 1/2"

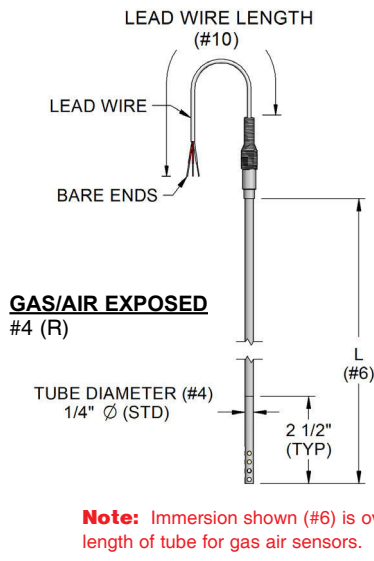
<b>#10</b>	<b>LEAD WIRE TYPE &amp; LENGTH IN INCHES</b> [see section 7]		
1"	Fiberglass braid	X"	Other, specify
3"	Teflon (Standard)	Z"	N/A
4"	High temperature fiberglass braid		
5"	Kapton (Standard for Cryogenic)		

**Note:** All wire in tubes > 1/8" OD will be 24 AWG. Smaller tubes will have a max. of 28 AWG. If no transition or armor is specified, wire may be fragile. JMS standard lead wire for RTDs is stranded plated copper.

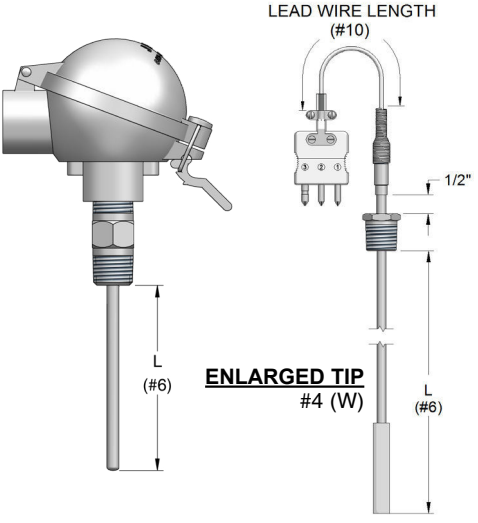
<b>#11</b>	<b>ARMOR OR HEAT SHRINK/JACKET [7-7]</b>		
A	SS flex armor (Standard)	G	Heat shrink/sleeving
B	SS flex armor Teflon coated white	H	Jacket to match primary insulation
C	SS flex armor Teflon coated black	J	Aluminum Mylar shielded and jacketed to match primary insulation
D	1/8" ID SS flex armor	Z	N/A
F	SS overbraid	X	Other, specify

<b>#12</b>	<b>WIRE CONFIGURATION [17, 18]</b>		
T	2 Wire	<b>Note:</b> Use a double symbol for 2 separate multiconductor lead wires, if dual elements. For example, TT.	
Y	3 Wire		
W	4 Wire		

<b>#13</b>	<b>TYPE OF TRANSITION [14]</b>		
H	Heat shrink	<b>Note:</b> For high humidity/moisture environments ( $\leq 500^\circ\text{F}$ ), put a 2 after your selection. For example, R2.	
S	Size on size		
T	3/8" OD	<b>Note:</b> For high temperatures at the transition area ( $500^\circ\text{F}$ to $1200^\circ\text{F}$ ), put a 3 after your selection. For example, T3.	
R	1/4" OD		
Q	Cuttable (Std construction only) [3-12]		
X	Other, specify		
Z	No transition		



<b>#14</b>	<b>COLD END TERMINATION</b> [Additional options see Pg 1-7] Choose all that apply		
<b>Connectors</b>		<b>Heads [6-1]</b> Visit <a href="http://www.JMS-SE.com/headspecs">www.JMS-SE.com/headspecs</a>	
B	Miniature plug	Exp. Proof	I Aluminum, NEMA 4X, FM, CSA, IP68 (6IA)
C	Standard plug		J 316 SS, NEMA 4X, FM, CSA, IP68 (6ISS)
F	High temp plug (< 800°F)	Gen. Purpose	P Aluminum, NEMA 4X, FM, CSA, ATEX, IECEX, IP68 (6IAIEC)
WM	Microphone style plug		U 316 SS, NEMA 4X, FM, ATEX, IECEX, IP68 (6ISSATEX)
D	Miniature jack	L Aluminum w/ hinged cover (6L)	
E	Standard jack	M Aluminum w/ screw cover & chain (6M)	
G	High temp jack (< 800°F)	N Cast Iron w/ screw cover (6N)	
WF	Microphone style jack	Q Black plastic (6Q)	
V	Water resistant plug	R Aluminum high dome w/ hinged cover (6R)	
Y	M12 Water resistant plug	SS 316 SS w/ screw cover & chain (6SS)	

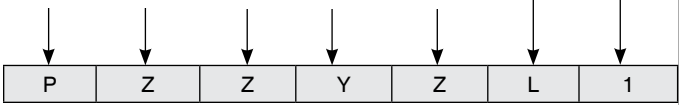


<b>Transmitters</b>		<b>Transmitter &amp; Housing [See Pg. 8-2]</b>	
8H	Isolated transmitter	8PS	Indicating with SS housing
8N	Non-isolated transmitter	8PA	Indicating with aluminum housing
8I	Hart Protocol	Other	
8E	Intrinsically safe	A	Bare ends
8D	HART / Intrinsically safe	X	Other, specify
8M	Integral transmitter (see page 3-5)		

**Note:** Add span range after transmitter selection. Example: 8H(0-200C).

<b>#15</b>	<b>OPTIONS</b> (Use only if applicable)		
1	Stainless steel tag	6C*	Premium calibration report.
2	Plastic tag		Callendar-Van Dusen coefficients will be provided for all
3	Paper tag		CE marking [page XV]
4	Laser etch on probe	7	Guide 17025 calibration
5	Calibrate at specified point(s)	8	MTR (Sheath, tubing, tip)
	Corrections data provided for each point.	M	Calibration tag
		T	
6*	Premium calibration report. Corrections data will be provided for all		

\*Must specify increments & range (Example: 0 to 300°F, 10° increments)



**COMPLETE PART NUMBER EXAMPLES**

-with nipple-union-spring-loaded fitting extension assembly:  
**3ESBNK12"BS[UN6H]PZZYZL1**

-without extension assembly:  
**3ESBNK12"BSPZZYZL1**