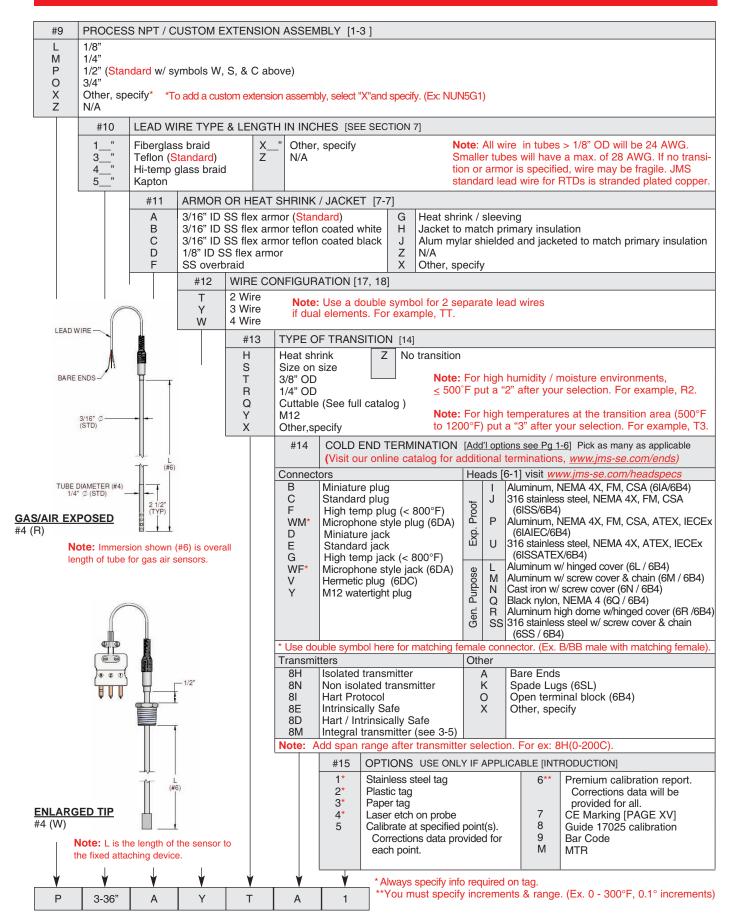
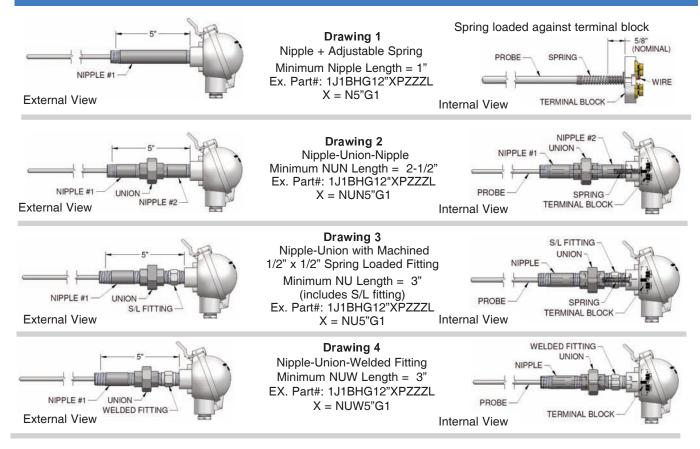
RESISTANCE TEMPERATURE DEVICES (RTDS)

	DESCRIPTION											
3	RTD											
	#2 ELEMENT TYPE [4, 9, 10, 11, 15, 18, 22] Platinum 0.00385 alpha (Ω/Ω/°C)											
		Res	Resistor Accuracy at 0°C			Thermometer Class [page 3-18]		Resistor Class [page 3-18]			Note: Wound or film resistors may be used.	
	B E P* S* X	± 0.3°C (Competitor's Std) ± 0.15°C (JMS Standard) ± 0.06°C ± 0.03°C (Best Accuracy) Other, specify [3-22]			B A AA 1/4 AA		\geq F 0.30 \geq F 0.15 \geq 1/2 F 0.10 \geq 1/10 F 0.10		* For use	* For compliant results, use 4 wire RTD for high accuracy (types P & S).		
#3 ELEMENT CONSTRUCTION [4] [3-11] S Single Standard construction D Dual Standard construction J Single Swaged construction K Dual Swaged construction X Other, specify										dability,		
			#4		AMETER -				-			OSE 1 [5-30] [1-13]
			P A Y B R C	1/2" (.50 3/8" (.37 5/16" (.3 1/4" (.25 6mm (.2 3/16" (.1	5") 2 12") 2 0") 36")	0 1/8" (Other N/A	.125") r, specify	N K* O* R* W* Y*	Pointed Weld pa Weld pa Gas/Air, Enlarge	closed tip (S tip [4-9] ad [1-1] ad, removable , exposed [3- d tip [3-2] d tip [4-1]	· [4-15]	* When selecting these options, a description must be provided. See 4-15 for example of removable weld pad.
				#5	TUBE MA							
				K L M	316 Stainl 316 LSS I-600 (Use		el 00l #7 >500°	°F)	C S X	Teflon Coat Titanium Other, spec	,	
					#6	LENGTH	H(L) (See	sketcl	hes on Po	g. 3–1 and 3-		
		dicate pag					ersion length in inches					
		additional helpful information				#7	#7 MAX. TEMPERATURE AT WHICH TIP WILL BE EXPOSED					
<u>ww</u>	Now available online at IMS-SE.com/TechnicalCatalog				A B* C* D* E*	Cryogenic (-196°C to 0°C) <200°C (392°F) =3 Teflon <285°C (550°F) =5 Kapton <350°C (662°F) =1 Fiberglass <660°C (1220°F) * If no transition (Z) is in symbol 13, we recommend these corre- sponding selections for primary wire insulation in symbol 10.						
T	n I ————	LEAD WIRE LENGTH					#8 STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6-13]					
				(#1	0)		Spring Loaded Note: Spring material, 1000°F rated (for 1/4" Ø sensors)					
	3 1/2" (STANDARD)						С	Double	e threaded	d (process) d w/ oil ring ded retainer	E S B BD	Adjustable spring Double threaded Bayonet assembly Bayonet oil seal
A CONTRACTOR OF THE OWNER OF THE				⊥ ∕N			Welded	<u>.</u>				
Descaration and										l (process) l reversed (att	W ached he	Double threaded
	LENGTH)					Compress	Compression *Length (#7) calculated without attaching device.					
						H* * J*	۱*	SS w/	SS ferru Teflon fe Lava fer	errule	K* L*	SS w/ Nylon ferrule Brass w/ Brass ferrule
						Extension Assembly (See 1-3 for more extension options and details)						
1					(#6)		N4 WH4 WG4 SH4	4" NU 4" NU 4" NU 4" NU 4" NU 4" NU	IN, 304SS IN, GALV IW, 304SS IW, GALV I, 304SS I, GALV	S /	H6 N6 WH6 WG6 SH6 S6	6" NUN, 304SS 6" NUN, GALV 6" NUW, 304SS 6" NUW, GALV 6" NU, 304SS 6" NU, 304SS 6" NU, GALV
					Ut				E 001			
e: L	is the ove	erall length	 of the sen	 nsor to the	transition.		Other Op			A Certified as		see Page 4-17.
					transition, ning devices	5.		Other,	specify		semblies, Z alv = Gal ¹	N/A

RESISTANCE TEMPERATURE DEVICES (RTDS)



NIPPLE-UNION-NIPPLE EXTENSION ASSEMBLIES



An extension assembly provides extra length extending the sensor head past insulation and away from heat. Extensions include pipe nipple only (drawing #1), nipple-union-nipple (drawing #2), nipple union with attaching device (drawing #3), or nipple-union with welded fitting (drawing #4) All but welded are spring-loaded. Standard unions are 1/2" FNPT on both ends and galvanized or stainless steel material. 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 is mounted to the head in a rigid manner (drawing #3) instead of spring-loading against a terminal block (drawings #1 & #2). Note: the standard JMS spring designed specifically for a 1/4" OD sensor is Inconel material. This high temperature material allows users to successfully maintain ½" of spring loading even up to 1020°F!

#1	EXT	EXTENSION ASSEMBLY					
N NUN NU NUW	J Nipple-Union-Spring Loaded Fitting (Dwg #3)						
	#2 LENGTH						
" Specify length in inches				ength in inches			
			#3	MATERIAL			
	G Galvanized Steel H 304 Stainless Steel K 316 Stainless Steel C Black Steel		304 Stainless Steel 316 Stainless Steel				
				#4 PRESSURE RATING			
				1 #150 - A351 spec (Standard) 2 #3000 - A182 spec 3 #6000 - A182 spec X Other, specify			
¥	¥		¥	\checkmark			
NUN	5"	,	G	1			

ADDITIONAL TERMINATIONS

	COLD END TERMINATION [SEE SECTION 6] Pick as many as app	licable					
Connecto		licable					
Connecil			ll				
в	<u>Plugs</u> Miniature plug (6A1B)	D	Jacks Miniature jack (6A1D)				
1							
BH	Miniature High temperature plug (6A2B) <800°F	DH	Miniature High temperature jack (6A2D) <800°F				
C	Standard plug (6A1C)	E	Standard jack (6A1E)				
F	Standard High temperature plug (6A2C) <800°F	G	Standard High temperature jack (6A2E) <800°F				
WM	Microphone style plug (6DA)	WF	Microphone style jack (6DA)				
WA	Solid pin plug, heavy duty (6A3C)	WB	Solid pin jack, Heavy duty (6A3E)				
WC	Jab in plug (6A4C)	WD	Jab in jack (6A4E)				
WE	Ultra High Temp plug, glazed (6A5C) <1200°F WG Ultra High Temp jack, glazed (6A5E) <1200°F						
WH	Ultra High Temp plug, unglazed (6A7C) <1200°F	WI	Ultra High Temp jack, unglazed (6A7E) <1200°F				
WJ	Low noise plug (6A6C) <425°F	WK	Low noise jack (6A6E) <425°F				
WL	DIN-IEC microphone plug (6DB)	WN	DIN-IEC microphone style jack (6DB)				
V	Molded / hermetic plug (6DC)	VF	Molded / hermetic jack (6DC)				
Y	M12 Male connector (6DY)	YF	M12 Female connector (6DY)				
Heads	[6–1] visit www.jms-se.com/headspecs		,				
	Explosion Proof						
	Aluminum, NEMA 4X, FM, CSA (6IA/6B4)						
J	316 stainless steel, NEMA 4X, FM, CSA (6ISS/6B4)						
P	Aluminum, NEMA 4X, FM, CSA, ATEX, IECEx (6IAIEC/6B4)						
U SI	316 stainless steel, NEMA 4X, ATEX, IECEx (6ISSATEX/6B4)						
	Cast Iron, UL / CSA (6I/6PT)		(000 (000 11)				
GA	Aluminum, screw cover w/ indicating window, NEMA 4X, ATEX / IE						
GS	316SS, screw cover w/ indicating window, NEMA 4X, ATEX / IECE	x, FIVI / C	5A (68851)				
	General Purpose						
L	Aluminum w/ hinged cover (6L/6B4)						
M	Aluminum w/ screw cover & chain (6M/6B4)						
R	Aluminum high dome, hinged cover (6R/6B4)						
RV	Aluminum high dome, hinged cover w/ indicating window (6RV)						
N	Cast iron w/ screw cover (6N/6B4)						
Q	Black nylon, NEMA 4 (6Q/6B4)						
SS	316 stainless steel w/ screw cover & chain (6SS/6B4)						
WP	White Plastic, screw cover, Sanitary (6WP, 6B4)						
SB	Nickel plated, cylinder style, 1/4" NPT (6S250)						
SD	Nickel plated, cylinder style, 1/8" NPT (6S125)						
SC							
ST	Molded plastic, mini head, 1/4" NPT, < 400F (6T)						
SU							
Transmit	tters						
8H	Isolated transmitter						
8N	Non isolated transmitter						
81	Hart Protocol Note: Add span range after transmitter						
8E	Intrinsically Safe selection. For ex: 8H(0-200C).						
8D	Hart / Intrinsically Safe						
8M	Integral transmitter (See Pg.3-5) RTDs ONLY						
Other							
A	Bare Ends						
ĸ	Spade Lugs (6SL)						
Ö	Open terminal block, screw terminal (6B)						
ŎA							
OB							
ÖG	Terminal block, brass screw terminal (6G)						
OP	Pluggable terminal block, screw terminal (6P)						
OS	Open terminal block, solder terminal (6C)						
PS	Ship straight						
X	Other, specify						