

MINIATURE AND INDUSTRIAL THERMOCOUPLES



#1	SERIES [6, 7]		
1	Thermocouple		
#2	TYPE [8, 9, 10]		
-	J, T, K, E, N, X (Other, specify)		
#3	LIMITS OF ERROR [9]	ELEMENT CONSTRUCTION	
1	Standard	Single	
2	Standard	Dual	
3	Special	Single	
4	Special	Dual	
X	Other, specify	Note: For hollow tube sensors see pages 2-1 and 2-2.	
#4	OUTSIDE DIAMETER [11]	CONDUCTOR SIZE (FOR BASE METALS ONLY) SINGLE (awg) DUAL (awg)	
*A	3/8"	13	16
B	1/4"	16	18
C	3/16"	19	20
D	1/8"	22	24
E	1/16"	28	30
*F	1/25"	32	34
X	Other, specify		
Z	N/A		

Note: JMS now offers sheath as small as .010 in diameter

[] BRACKETS INDICATE PAGE NUMBERS ON WEB OR FULL CATALOG FOR ADDITIONAL TECHNICAL INFORMATION
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#5	SHEATH MATERIAL [11]	MAX °F [2-8, 4-17]
H	304 Stainless Steel	1650
J	310 Stainless Steel	2100
V	STABALLOY	2220
K	316 Stainless Steel	1650
M	Inconel 600	2100
C	Teflon coated SS	400
X	Other, specify	

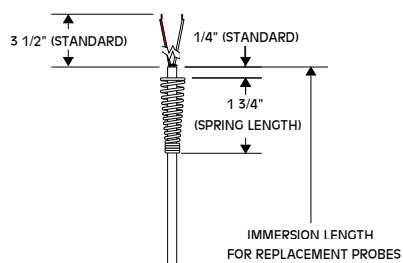
#6	MEASURING JUNCTION [12, 13, 15]		
G	Grounded	*P	Reduced tip, grounded
U	Ungrounded	*Y	Reduced tip, ungrounded
E	Exposed (Isolated on dual)	*R	Gas/Air, exposed
I	Isolated	*S	Gas/Air, grounded
*J	Pointed tip, grounded	*T	Gas/Air, ungrounded
*K	Pointed tip, ungrounded	*V	Enlarged tip, grounded
*L	Weld pad, grounded	*W	Enlarged tip, ungrounded
*M	Weld pad, ungrounded	*X	Other, specify
*N	Weld pad, removable grounded		
*O	Weld pad, removable ungrounded		*Note: When selecting these options, a description must be provided

#7	LENGTH (See sketches on Pg. 1-1, 2, 3 & 4 for lengths)
-	Length in inches Note: If sensors requires a bend from the factory use page 2-1 to order.

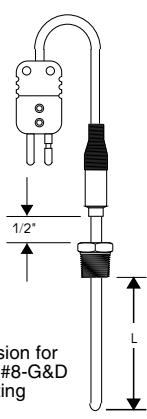
#8	STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6- 13]
W	Fixed NPT ss fitting - double threaded
S	Spring loaded NPT ss fitting -double threaded
C	Spring loaded NPT ss w/ oil ring - double threaded
D	Spring loaded ss fitting - single threaded
B	Bayonet spring loaded assembly for thermowells and heads
*E	Adjustable spring over .250", .188", .125" sheath
F	Reverse mounted steel plug fixed for attaching head
G	Fixed stainless steel to sheath (See drawing to left)
*H	Compression fitting ss w/ ss ferrule
*I	Compression fitting ss w/ teflon ferrule
*J	Compression fitting ss w/ lava ferrule
*K	Compression fitting ss w/ nylon ferrule
*L	Compression fitting brass w/ brass ferrule
N4	4" Nipple-Union-Nipple (NUN4G1)
N6	6" Nipple-Union-Nipple (NUN6G1)
S4	4" Spring-Loaded-Union-Nipple (NU4G1)
S6	6" Spring-Loaded-Union-Nipple (NU6G1)
X	Other, specify or if more than 1 is needed
Z	Not applicable (no fitting required)

(See pages 1-3 for more nipple options.)

* Length is calculated without consideration of these attaching device. (See dwg on pg. 1-2)



Immersion for Symbol #8-E Spring

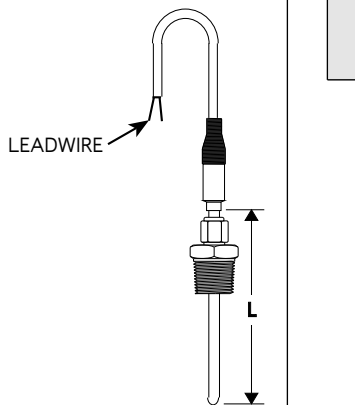


Immersion for Symbol #8-G&D Fitting

1	J	1	B	H	G	12"	S
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MINIATURE AND INDUSTRIAL THERMOCOUPLES

#9	PROCESS NPT [3]					
L M P O X Z	1/8" 1/4" 1/2" (Standard w/ symbols W, S, C, and N in symbol #8) 3/4" Other, specify N/A					
#10	LEAD WIRE TYPE & LENGTH IN INCHES [SEE SECTION 7]					
Z 1__" 2__" 3__" 4__" 5__" 7__" X__"	No lead wires Glass braid PVC Teflon Hi-temp glass braid Kapton Bare wire Other, specify		} Solid 20awg	8	PVC coil cord - Standard when using symbol #8-B and #13-R Note: For non-stock stranded wire, add "S" before symbol designation in this column. 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 B C D F G H	3/16" ID SS flex armor 3/16" ID SS flex armor PVC coated white 3/16" ID SS flex armor PVC coated black 1/8" ID SS flex armor SS overbraid Heat shrink / sleeving Jacket to match primary insulation			J X Z	Aluminum mylar shielded and jacketed to match primary insulation Other, specify N/A Note: Bell Springs are used for most wire extensions at transition. A special armor adapter is used when armor is longer than 60".	
#12	TYPE OF TRANSITION [16]					
H S T R X Z	Heat shrink Size on size 3/8" OD (Standard) 1/4" OD Other, specify No transition		Note: For high humidity / moisture environments, ≤ 500°F put a "2" after your selection. * For high temperature at the transition area use an X + type of transition and maximum temperature. >500°F			
#13	COLD END TERMINATION [SEE SECTION 6] PICK AS MANY AS APPLICABLE					
A B C D E F G I K L M N O	Bare ends Miniature plug Standard plug Miniature jack Standard jack High temperature plug (< 800° F) High Temperature jack (< 800° F) Explosion proof Nema 7 head (6I / 6IA) Spade lugs (6SL) Aluminum head w/ hinged cover (6L / 6B4) Aluminum head w/ screw cover & chain (6M / 6B4) Cast iron head w/ screw cover (6N / 6B4) Open terminal block (6M)			Note: For any other cold end termination, use symbol X and describe using appropriate part numbers from section 6 in place of symbol #13.	Q R W* 8H 8N 8S 8I 8E 8D X	Blk nylon Nema 4 head (6Q/6B4) High dome head (6R) Microphone style connector (6DA) -Male Isolated Transmitter Non Isolated Transmitter AI-1500 TempIR with Hart Protocol Intrinsically Safe TempIR TempIR/ Hart/ Intrinsically Safe Other, specify
					*Use double symbol here for matching female connectors. i.e. B/BB (male w/matching female).	
#14	OPTIONS USE ONLY IF APPLICABLE [INTRODUCTION]					
1 2 3 4	TAGGING	Stainless steel tag Plastic tag Paper tag Electroetch on probe Note: You must always specify information required on tag		5 6	CALIBRATION	
				7 8 9 Z		
				Calibrate at specified point(s). Corrections data will be provided for each point. Calibrate specified temperature range. Corrections data will be provided for all temperatures within the range. Note: You must specify increments & range Ex. 0 to 300°F, 0.1° increments		
				CE Marking [Page XV] Guide 17025 calibration BAR CODE N/A		



L	Z	G	Z	L	1
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