

Thermocouple Probes, RTD Probes, and Temperature Transmitters

We Can Provide What You Want



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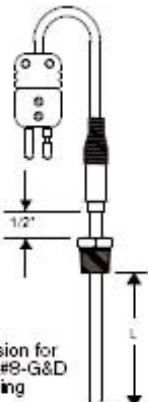
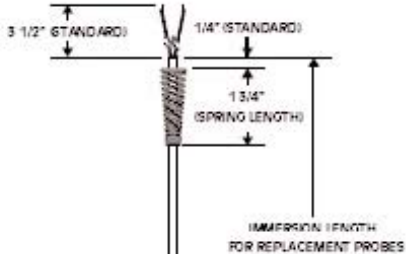
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Your Sensor Solution Source



#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)	
*A	3/8"	SINGLE (awg) 13	DUAL (awg) 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		
#5	SHEATH MATERIAL [11]	MAX °F [2-8, 4-17]	
H	304 Stainless Steel	1650	
J	310 Stainless Steel	2100	
V	STABALOY	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	*Note: When selecting these options, a description must be provided	
*O	Weld pad, removable ungrounded		
#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)		

[] BRACKETS INDICATE PAGE NUMBERS ON WEB OR FULL CATALOG FOR ADDITIONAL TECHNICAL INFORMATION
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Immersion for Symbol #8-E Spring

Immersion for Symbol #8-G&D Fitting

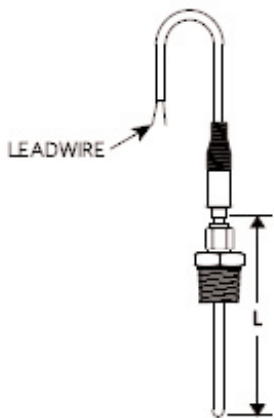
1	J	1	B	H	G	12"	S
---	---	---	---	---	---	-----	---

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

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

Miniature & Industrial Thermocouples

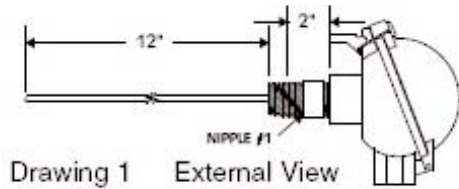
#9	PROCESS NPT [3]																					
L	1/8"																					
M	1/4"																					
P	1/2" (Standard w/ symbols W, S, C, and N in symbol #8)																					
O	3/4"																					
X	Other, specify																					
Z	N/A																					
#10	LEAD WIRE TYPE & LENGTH IN INCHES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



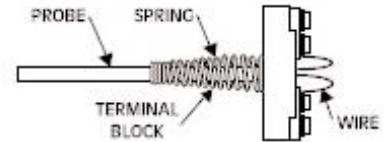
Immersion is overall length of tube for non-fixed attaching devices

L Z G Z L 1

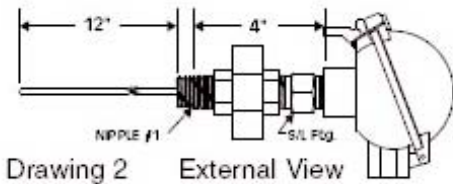
Nipple-Union-Nipple Assemblies



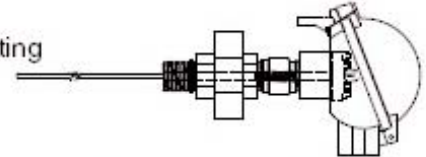
Drawing 1 - Nipple Only
Minimum Nipple L=1"
Ex. Part#: 1J1BHG12"EXZZZL
X = N2"G1



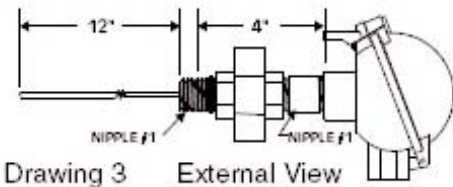
Direct Mounted Spring on Terminal Block



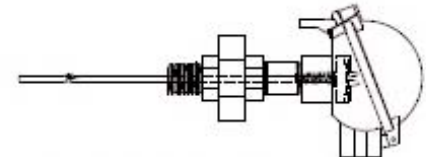
Drawing 2 - Nipple-Union with
Machined 1/2" x 1/2" Spring Loaded Fitting
Minimum NU L=4" (includes S/L fitting)
Ex. Part#: 1J1BHG12"SXZZZL
X = NU4"G1



Drawing 2-A Internal View



Drawing 3 - Nipple-Union-Nipple with
Spring Against Terminal Block
Minimum NUN L=4"
EX. Part#: 1J1BHG12"EXZZZL
X = NUN4"G1



Drawing 3-A Internal View

An extension assembly may be needed to provide extra length for your sensor in order to extend your sensor head through insulation, or away from the heat of the process. This extension can include a pipe nipple only or a nipple-union-nipple or a nipple-union with a spring-loaded fitting.

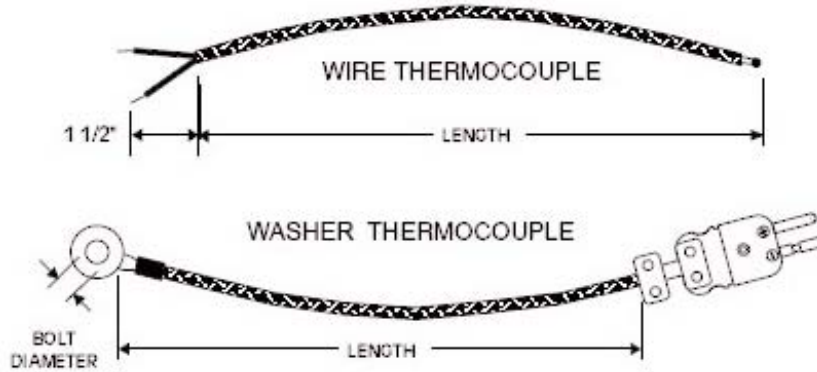
Standard nipples and unions are 1/2" NPT and are available in galvanized or stainless steel. The union joins two nipples in an extension assembly and has a standard pressure rating of 150 pounds.

When a nipple-union-nipple or nipple only assembly is used and spring loading of the thermocouple element is required, there are two different methods of spring loading the sensor. The preferred method is to use the machined 1/2" by 1/2" NPT spring-loaded stainless steel fitting as one of the nipples (see symbol #8, S page 1-1). With this design, the probe is secured within the fitting and is mounted to the head in a rigid manner (see drawing #2 above). The appropriate part number for this assembly would be selected from symbols #8 and #9 from page 1-1 and 1-2, in addition to the symbols on this page. A cheaper method is a spring, mounted over the probe and loaded against the bottom of the terminal block in the head. With this method the probe is not supported within the nipple-union-nipple. It is secured only by the wires into the terminal block. (See drawings 1 & 3 above). We do not recommend that you use this method of spring loading if your probe is mounted horizontally.

When specifying this sensor extension, the nipple-union-nipple length tolerance is $\pm 1/4"$.

#1	EXTENSION ASSEMBLY	
N	Nipple Only (Dwg #1)	
NU	Nipple-Union (Dwg #2)	
NUN	Nipple-Union-Nipple (Dwg #3)	
#2	LENGTH	
-"	Specify length in inches	
#3	MATERIAL	
G	Galvanized Steel	
H	304 Stainless Steel	
C	Black Steel	
#4	PRESSURE RATING	
1	#150 - A351 spec (Standard)	} ASTM
2	#3000 - A182 spec	
3	#6000 - A182 spec	
X	Other, specify	
NUN	6"	G 1

Wire, Washer, and Lug Thermocouples



RING TERMINAL THERMOCOUPLE



#1	DESCRIPTION	
1D	Wire and Washer thermocouples	
#2	TYPE OF THERMOCOUPLE	
G	Wire thermocouple	
H	Washer thermocouple	
L	Ring Terminal thermocouple	
S	Spade Lug thermocouple	
#3	TYPE	
J	Iron/Constantan	
T	Copper/Constantan	
K	Chromel/Alumel	
E	Chromel/Constantan	
N	Nirosil/Nisil	
X	Other, specify	
#4	WASHER MATERIAL	
C	Copper (Standard)	
P	Spark plug washer (4 cycle automotive)	
S	Stainless steel	
X	Other, specify	
Z	N/A	
#5	BOLT DIAMETER	
A	#10	
B	#12	
C	1/4"	
X	Other, specify	
Z	N/A	
#6	WIRE INSULATION	
1	Glass braid	
3	FEP teflon	
4	Hi-temp glass braid	
5	Kapton	
8	Glass braid / stainless steel overbraid	
X	Other, specify	
#7	DESCRIPTION	
--"	Length in inches	
#8	COLD END TERMINATION	
A	Bare ends (Heat shrink used with braided insulation)	
B	Miniature plug	
C	Standard plug	
X	Other, specify (See page 1-2 more options)	

1D	G	J	C	A	1	36"	C
----	---	---	---	---	---	-----	---

#1	SERIES		
3	RTD		
#2	ELEMENT TYPE [4, 9, 10, 11, 15, 18, 22] Platinum 0.00385 alpha ($\Omega/\Omega/^{\circ}\text{C}$)		
B E P S X	Resistor Accuracy at 0°C	Thermometer Class [Table 3, page 3-18]	Resistor Class [Table 1 & 2, page 3-18]
	$\pm 0.3^{\circ}\text{C}$ (Competitor's Std)	B	$\geq F 0.3$
	$\pm 0.15^{\circ}\text{C}$ (Standard)	A	$\geq F 0.15$
	$\pm 0.06^{\circ}\text{C}^*$	AA	$\geq 1/2 F 0.1$
	$\pm 0.01^{\circ}\text{C}$ (Best Accuracy *)	1/4 AA	$\geq 1/10 F 0.1$
X	Other, specify [3-22]		
#3	ELEMENT CONSTRUCTION [4] [3-11]		
S D J K X	Single Standard construction Dual Standard construction Single Swaged construction Dual Swaged construction Other, specify Note: Use swaged for high temperature, bendability, high vibration and/or longer than 6 ft.		
#4	TUBE DIAMETER - *MUST CHOOSE 1 FROM EACH COLUMN* [5-30, 1-13]		
A B C D X Z	3/8" (.375") 1/4" (.250") 3/16" (.188") 1/8" (.125") Other, specify N/A	N *K *M *O *R *W *Y Q	Normal, closed tip (Standard) Pointed tip, ungrounded Weld pad, ungrounded Weld pad, removable ungrounded Gas/Air, exposed Enlarged tip, ungrounded Reduced tip, ungrounded Cutable (**See full catalog)
#5	TUBE MATERIAL [11, 12]		
K L M C X	316 Stainless Steel 316 LSS I-600 (Use if symbol #7 >500°F) Teflon Coated, SS Other, specify		
#6	LENGTH (L) (See sketches on Pg. 3-1 and 3-2 for L")		
—"	Immersion length in inches		
#7	MAX. TEMPERATURE AT WHICH TIP WILL BE EXPOSED		
A B C D E	0°C (32°F) =5 Kapton* <200°C (392°F) =3 Teflon* <285°C (550°F) =5 Kapton* <350°C (662°F) =1 Fiberglass* <600°C (1112°F) =4 HT Fiberglass*	*If no transition (Z) is in symbol 13, we recommend these corresponding selections for primary wire insulation in symbol 10.	
#8	STANDARD INDUSTRIAL ATTACHING DEVICE		
W S C D B *E F G *H *I *J *K *L N4 N6 S4 S6 X Z	Fixed NPT ss fitting - double threaded Spring-loaded NPT SS fitting - double threaded Spring-loaded NPT SS fitting w/ oil ring - double threaded Spring-loaded ss fitting - single threaded Bayonet spring loaded assembly for thermowells & heads Adjustable spring over .250", .188", .125" sheath Reverse mounted steel plug fixed for attaching head Fixed stainless steel to sheath Compression fitting ss w/ ss ferrule Compression fitting ss w/ teflon ferrule Compression fitting ss w/ lava ferrule Compression fitting ss w/ nylon ferrule Compression fitting brass w/ brass ferrule 4" Nipple-Union-Nipple (NUN4G1) 6" Nipple-Union-Nipple (NUN6G1) 4" Spring-Loaded-Union-Nipple (NU4G1) 6" Spring-Loaded-Union-Nipple (NU6G1) Other, specify or if more than 1 is needed N/A (No fitting needed)		
* Length is calculated without consideration of these attaching device. See dwg on pg. 3-2)			

*Note:
When selecting these options, a description must be provided.

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Immersion for Symbol #8-E

Immersion for Symbol #8-G & D

3

E

S

B

K

12"

B

W

Resistance Temperature Devices (RTD'S)

#9	PROCESS NPT [1-3]					
L	1/8"					
M	1/4"					
P	1/2" (Standard w/ symbols W, S, & C above)					
O	3/4"					
X	Other, specify					
Z	N/A					
	#10	LEAD WIRE TYPE & LENGTH IN INCHES [SEE SECTION 7]				NOTE: All wire will be 24 awg in tubes > 1/8" OD. Smaller tubes will have a max. of 28 awg. If no transition or armor is specified, wire may be fragile. JMS standard wire tube for RTD's is Stranded Plated Copper.
	1__"	Fiberglass braid	6__"	Bare wire (Standard for swaged leads under 12")		
	2__"	PVC	X__"	Other, specify		
	3__"	Teflon (Standard)	Z	N/A		
	4__"	Hi-temp glass braid				
	5__"	Kapton				
	#11	ARMOR OR HEAT SHRINK / JACKET [7-7]				
	A	3/16" ID SS flex armor (Standard)	G	Heat shrink / sleeving		
	B	3/16" ID SS flex armor PVC coated white	H	Jacket to match primary insulation		
	C	3/16" ID SS flex armor PVC coated black	J	Alum mylar shielded and jacketed to match primary insulation		
	D	1/8" ID SS flex armor	Z	N/A		
	F	SS overbraid	X	Other, specify		
	#12	WIRE CONFIGURATION [17, 18]				
	T	2 Wire				Note: Use a double symbol for 2 separate lead wires if dual elements. i.e. TT.
	Y	3 Wire				
	W	4 Wire				
	#13	TYPE OF TRANSITION [14]				
	H	Heat shrink				Note: For extra high humidity / moisture environments, ≤ 500° F put a "2" after your selection.
	S	Size on size				
	T	3/8" OD				For high temperature at the transition area use an X + type of transition and maximum temperature. >500° F
	R	1/4" OD				
	X	Other, specify				
	Z	No transition				
	#14	COLD END TERMINATION [SEE SECTION 6] Pick as many as applicable				
	A	Bare ends		8H	Isolated Transmitter	
	**B	Miniature plug		8N	Non Isolated Transmitter	
	**C	Standard plug		8S	AI-1500	
	**D	Miniature jack		8I	TempIR with Hart Protocol	
	**E	Standard jack		8E	Intrinsically Safe TempIR	
	F	High temperature plug (< 800° F)		8D	TempIR/Hart/Intrinsically Safe	
	G	High temperature jack (< 800° F)		X	Other, specify	
	I	Explosion proof Nema 7 head (6I / 6IA)				
	K	Spade lugs (6SL)				
	L	Aluminum head w/ hinged cover (6L / 6B4)				
	M	Aluminum head w/ screw cover & chain (6M / 6B4)		*Use double symbol here for matching female connector. i.e. b/bb (male with matching female)		
	N	Cast iron head w/ screw cover (6N / 6B4)				
	O	Open terminal block (6M)				
	Q	Black nylon Nema 4 head (6Q / 6B4)				
	R	High dome head (6R)				
	V*	Hermetic connector (6DC) - Male		**We do not advise using these connectors for RTD's		
	W*	Microphone style connector (6DA) - Male				
	Note: For any other cold end termination, use appropriate part numbers from section 6 in place of symbol #14.					
	#15	OPTIONS USE ONLY IF APPLICABLE [INTRODUCTION]				
	1	TAGGING	Stainless steel tag		CALIBRATION	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] Bar Code N/A
	2		Plastic tag			
	3		Paper tag			
	4		Electretch on probe Note: You must always specify information required on tag			
	5		Calibrate at specified point(s). corrections data will be provided for each point.			
	6		Calibrate specified temperature range. corrections data will be provided for all temperatures within the range.			
	7		Note: You must specify increments & range. (Ex. 0 to 300°F, 0.1° increments)			
	8		CE Marking [PAGE XV]			
	Z		Bar Code			
			N/A			

LEADWIRE

Immersion is overall length of tube for non-fixed attaching devices

P

3-36"


A

Y

T

A

Non-Isolated Transmitters

#1	SERIES [12, 13]		
8N	Transmitter, Non-Isolated		
#2	INPUT		
*J	Iron/Constantan thermocouple	*B	Platinum 6% Rhodium/Platinum 30% Rhodium thermocouple
*T	Copper/Constantan thermocouple	*N	Nicrosil/Nisil thermocouple
*K	Chromel/Alumel thermocouple	*C	Tungsten/Tungsten Rhenium thermocouple
*E	Chromel/Constantan thermocouple	3	3 wire, 100Ω, Platinum, α=00385, RTD (3 - Wire Standard, If 2 or 4 Wire use X)
*S	Platinum 10% Rhodium/Pure Platinum thermocouple	X	Other, specify
*R	Platinum 13% Rhodium/Pure Platinum thermocouple		
Although non-isolated transmitters are available for thermocouples, JMS always recommends the customer use isolated transmitters for their application. See below for isolation values to 3750 volts			
#3	TEMPERATURE RANGE		*All non-isolated thermocouple transmitters should be used with ungrounded junctions to prevent ground loops and noise interference.
-- to -- °C	List desired temperature span		
-- to -- °F	List desired temperature span		
X	Other, specify		8N 
#4	OUTPUT		
4	4 to 20 mA		
X	Other, specify		
#5	MOUNTING		
A	Dual mounting bracket		} For panel mounting
B	Dual mounting bracket with 12" cuttable mounting track		
X	Other, specify		
Z	N/A		

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Isolated Transmitters

#1	SERIES [14, 15, 16, 17]		
8	Transmitter (Add "R" for DIN Rail Style)		
#2	TYPE OF TRANSMITTER	I / O ISOLATION	HART
H	Standard TempIR	1500 VAC	No
C	CAL 9400 (See pg. 8-5, 8-6)	1000 VAC	No
A	AI-1000 (See pg. 8-8, 8-9)	500 VAC	No
S	AI-1500 (See pg. 8-10, 8-11)	500 VAC	Yes
B	AI-2000 (See pg. 8-12)	850 VAC	No
I	TempIR with Hart Protocol	1500 VAC	Yes
E	Intrinsically safe TempIR	3750 VAC	No
D	TempIR / Hart / Intrinsically safe	3750 VAC	Yes
X	Other		
#3	INPUT		
J	Iron/Constantan thermocouple	N	Nicrosil/Nisil thermocouple
T	Copper/Constantan thermocouple	C	Tungsten/Tungsten Rhenium thermocouple
K	Chromel/Alumel thermocouple	3	3 wire, 100Ω, Platinum, α=00385, RTD (3 - Wire Standard, If 2 or 4 Wire use X)
E	Chromel/Constantan thermocouple	X	Other, specify
S	Platinum 10% Rhodium/Pure Platinum thermocouple	Z	N/A
R	Platinum 13% Rhodium/Pure Platinum thermocouple		
B	Platinum 6% Rhodium/Platinum 30% Rhodium		
#4	TEMPERATURE RANGE		
-- to -- °C	List desired temperature span	X	Other, specify
-- to -- °F	List desired temperature span	Z	N/A
#5	OUTPUT		
4	4 to 20 mA	P	Profibus
X	Other, specify	F	Fieldbus
#6	SOFTWARE		
A	Yes - range at factory		
Z	No - range at factory		

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