

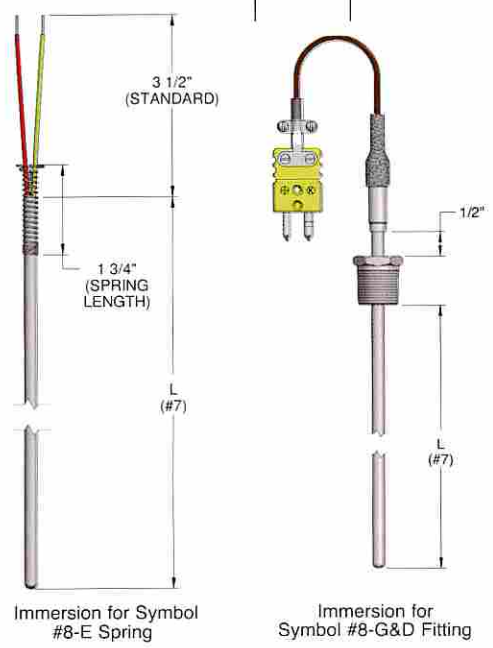
MINIATURE AND INDUSTRIAL THERMOCOUPLES



| #1 | DESCRIPTION [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 Note: For hollow tube sensors see pages 2-1 and 2-2. | | |
| | 4 | Special | Dual | | |
| | X | Other, specify | | | |
| | #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 | | | |
| | #5 | SHEATH MATERIAL [11] | | MAX °F [2-8, 4-17] | MAX °F |
| | H | 304 Stainless Steel | 1650 | M | Inconel 600 2100 |
| | J | 310 Stainless Steel | 2100 | C | Teflon coated SS 400 |
| | V | STABALOY | 2220 | Q | Hastelloy C-276 2000 |
| | K | 316 Stainless Steel | 1650 | X | Other, specify |
| | #6 | MEASURING JUNCTION [12, 13, 14, 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: Provide description when selecting these options. | |
| | O* | Weld pad, removable ungrounded | | | |
| | #7 | LENGTH (See sketches on Pg. 1-1, 2, & 3 for lengths) | | | |
| | -- | Length in inches Note: If sensor requires factory bend order from pg 2-1. | | | |
| | #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 | | | |
| | M** | CSA explosion proof spring loaded fitting | | | |
| | A | Spring loaded w/threaded retainer | | | |
| | 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 | | | |
| | H4 | 4" SS nipple-union-nipple (NUN4H1) | | | |
| | H6 | 6" SS nipple-union-nipple (NUN6H1) | | | |
| | 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) | | | |
| | C4** | 4" CSA certified flame path spring-loaded-union-nipple | | | |
| | C6** | 6" CSA certified flame path spring-loaded-union-nipple | | | |
| | X | Other, specify or if more than 1 is needed | | | |
| | Z | Not applicable (no fitting required) | | | |

[] BRACKETS INDICATE PAGE NUMBERS IN TECHNICAL CATALOG AVAILABLE ONLINE AT WWW.JMS-SE.COM/PDF/JMS_TECHNICAL_CATALOG.PDF

Note: For options N & O Fastrax designs refer to 4-15.

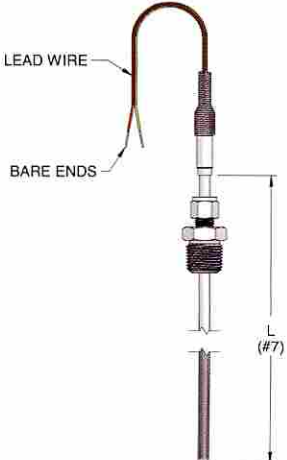
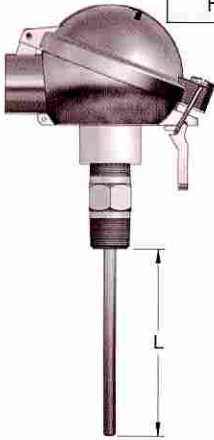


| | | | | | | | |
|---|---|---|---|---|---|-----|---|
| 1 | J | 1 | B | H | G | 12" | S |
|---|---|---|---|---|---|-----|---|

* Length calc. w/out attaching device. (See dwg on pg. 1-2)
 **For CSA certified assbly. sensor must be assembled w/thermo having appropriate Canadian Registration Number (CRN)

MINIATURE AND INDUSTRIAL THERMOCOUPLES

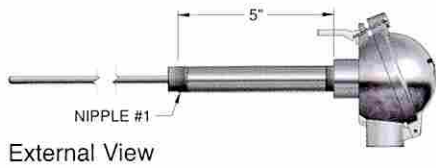
| | | | | | | |
|--|--|--|--|--|---|--|
| #9 | PROCESS NPT [3] | | | | | |
| L M P O X Z | 1/8" 1/4" 1/2" (Standard w/ symbols W, S, C, and N in symbol #8) 3/4" Other, specify N/A | | | | | |
| #10 | LEAD WIRE TYPE & LENGTH IN INCHES [SEE SECTION 7] | | | | | |
| Z 1__" 2__" 3__" 4__" 5__" | No lead wires Glass braid PVC Teflon Hi-temp glass braid Kapton | | } | Solid 20 AWG 7__" Bare wire 8__" PVC coil cord - Standard when using symbol #8-B and #13-R X__" Other, specify | | |
| Note: For 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 teflon coated white 3/16" ID SS flex armor teflon 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 Q X Z | Heat shrink Size on size 3/8" OD (Standard) 1/4" OD Cutable (see full catalog) Other, specify No transition | | | Note: For high humidity / moisture environments, ≤ 500°F put a "2" after your selection. Note: 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 J K L M N O P U | Bare ends Miniature plug Standard plug Miniature jack Standard jack High temperature plug (< 800° F) High temperature jack (< 800° F) Explosion proof NEMA 4X head, FM, CSA (6IA/6B4) Explosion proof stainless steel NEMA 4X head, FM, CSA (6ISS/6B4) 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) Explosion proof AL head ATEX certified Explosion proof stainless steel head ATEX certified | | | 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 WM WF 8H 8N 8S 8I 8E 8D | Blk nylon Nema 4 head (6Q/6B4) High dome head (6R) Microphone style connector (6DA) -Male Microphone style connector (6DA) -Female Isolated transmitter Non isolated transmitter AI-1500 TempIR with Hart Protocol Intrinsically Safe TempIR TempIR/ Hart/ Intrinsically Safe Other, specify | | | | | |
| #14 | OPTIONS USE ONLY IF APPLICABLE [INTRODUCTION] | | | | | |
| 1* 2* 3* 4* | Stainless steel tag Plastic tag Paper tag Laser etch on probe | | 5 6** 7 8 9 Z | Calibrate at specified point(s). Corrections data will be provided for each point. Premium calibration report Corrections data will be provided for all temperatures within the range. CE Marking [Page XV] Guide 17025 calibration BAR CODE N/A | | |
| * Must specify information required on tag / to be etched | | | ** You must specify increments & range (Ex. 0 to 300°F, 10° increments) | | | |



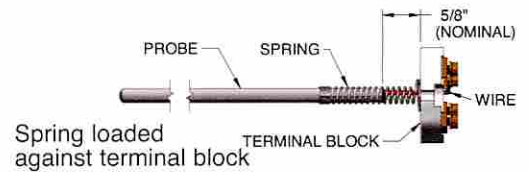
Immersion is overall length of tube for non-fixed attaching devices

| | | | | | |
|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| P | Z | Z | Z | L | 1 |

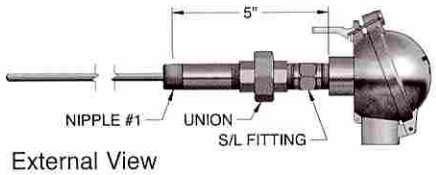
NIPPLE-UNION-NIPPLE EXTENSION ASSEMBLIES



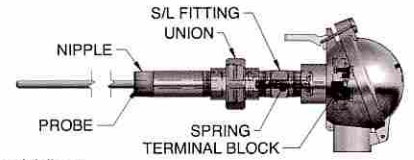
Drawing 1
Nipple + Adjustable Spring
Minimum Nipple L = 1"
Ex. Part#: 1J1BHG12"EXZZZL
X = N5"G1



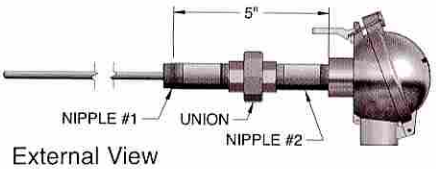
Spring loaded against terminal block



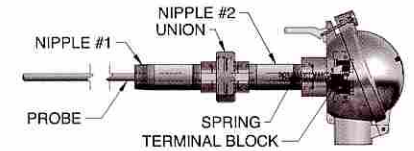
Drawing 2
Nipple-Union with Machined
1/2" x 1/2" Spring Loaded Fitting
Minimum NU L = 3 1/2"
(includes S/L fitting)
Ex. Part#: 1J1BHG12" SXZZZL
X = NU5"G1



Internal View



Drawing 3
Nipple-Union-Nipple with
Spring Against Terminal Block
Minimum NUN L = 2 1/2"
EX. Part#: 1J1BHG12"EXZZZL
X = NUN5"G1



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. 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.

When specifying this sensor extension, the nipple-union-nipple length tolerance is $\pm 1/2"$.

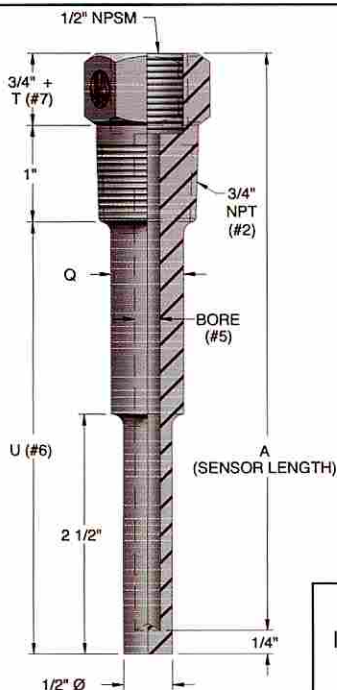
| #1 | EXTENSION ASSEMBLY | |
|-----|------------------------------|-----------------------------|
| N | Nipple Only (Dwg #1) | |
| NU | Nipple-Union (Dwg #2) | |
| NUN | Nipple-Union-Nipple (Dwg #3) | |
| | #2 | LENGTH |
| | --" | Specify length in inches |
| | #3 | MATERIAL |
| | G | Galvanized Steel |
| | H | 304 Stainless Steel |
| | C | Black Steel |
| | #4 | PRESSURE RATING |
| | 1 | #150 - A351 spec (Standard) |
| | 2 | #3000 - A182 spec |
| | 3 | #6000 - A182 spec |
| | X | Other, specify |
| | | ASTM |
| | NUN | 5" |
| | G | 1 |

THREADED, WELD-IN, & SOCKET WELD THERMOWELLS

| | | | |
|----|--|---------------------------|--------------------|
| #1 | DESCRIPTION [See pages 20-24 for complete information on dimensions, velocity ratings, and pressure ratings] | | |
| 5 | Thermowells - Add "W" here for a plug with a chain attached to well. (i.e. 5W) | | |
| #2 | THREADED WELLS / EXTERNAL THREAD | SOCKET WELL WELDOLET SIZE | |
| 1 | 1/2" NPT | N/A | |
| 2 | 3/4" NPT (Standard) | 3/4" | 1.050"Ø (Standard) |
| 3 | 1" NPT | 1" | 1.315"Ø |
| 4 | 1 1/2" NPT | 1 1/2" | 1.900"Ø |
| X | Other, specify | | |
| #3 | SHANK STYLE [15] | | |
| A | Step shank (Standard) | | |
| S | Straight shank | | |
| T | Tapered shank | | |
| B | Built up (Recommended for over 22 1/2", see drawing on 5-2) | | |
| X | Other, specify | | |
| #4 | THREADED OR SOCKET WELD WELLS | | |
| T | Threaded well design | | |
| S | Socket weld well design | | |
| W | Weld-in (Tapered shank standard) | | |
| X | Other, specify | | |



Looking for Sanitary Thermowells?
3-A certified sanitary thermowells [4-4] and 3-A certified sanitary weld-in thermowells [4-5] can be found in section 4 of this catalog.



THREADED STEP SHANK WELL DESIGN

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| | | | | | |
|----|---|--|---------------|----------|--|
| #5 | BORE SIZE | | | | |
| 2 | .260" ID used for .250" OD sensors (Standard) | | | | |
| 3 | .385" ID used for .375" OD sensors (straight or tapered only) | | | | |
| X | Other, specify | | | | |
| #6 | U (INSERTION) DEPTH [15] | STANDARD "T" DIMENSION | SENSOR LENGTH | | |
| | | | NO LAG | WITH LAG | |
| B | 2 1/2" | * Note: JMS recommends the use of the "Built Up" design if longer than 22 1/2" See page 5-2 for drawing. | 4 | 6 | |
| C | 4 1/2" | | 6 | 9 | |
| D | 6" | | 7 1/2 | 10 1/2 | |
| E | 7 1/2" | | 9 | 12 | |
| F | 10 1/2" | | 12 | 15 | |
| G | 13 1/2" | | 15 | 18 | |
| H | 16 1/2" | | 18 | 21 | |
| I* | 22 1/2" | | 24 | 27 | |
| X | Other, specify | | | | |

| | |
|----|--|
| #7 | T (LAG) EXTENSION [15] |
| T | Standard lag (For length see Table in Symbol #6) |
| Z | N/A (No lag) |
| X | Other, specify |

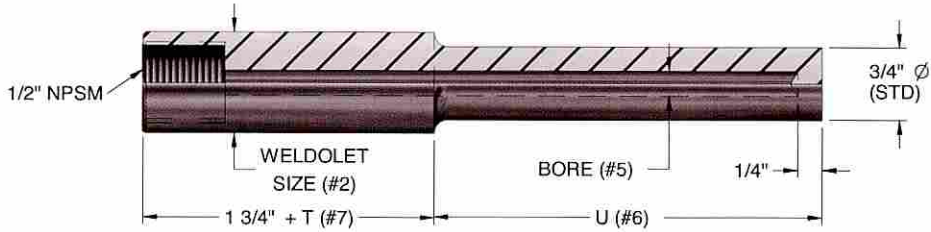
| | |
|----|--|
| #8 | WELL MATERIAL [31-34] |
| E | F22 |
| F | F11 |
| G | Carbon steel |
| H | 304 Stainless steel |
| I | Low Carbon 304 Stainless steel |
| J | 310 Stainless steel |
| K | 316 Stainless steel (Standard) |
| L | Low Carbon 316 Stainless steel |
| M | Inconel 600 |
| N | Monel 400 |
| Q | Hastelloy C-276 |
| S | Titanium |
| X | Other, specify (i.e.: Teflon, PVC, Nickel, etc.) |

| | | |
|---|-----------------|----------------------------|
| #9 | TAGGING OPTIONS | |
| 1 | STAMPING | Stamped on well (Standard) |
| X | | Other |
| Z | | N/A |
| Note: You must always specify information required on tag. | | |

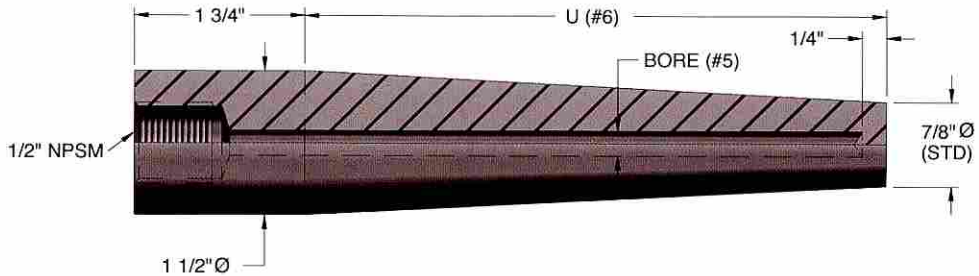
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 | 2 | A | T | 2 | E | T | H | 1 |
|---|---|---|---|---|---|---|---|---|

THREADED, SOCKET & WELD-IN THERMOWELLS

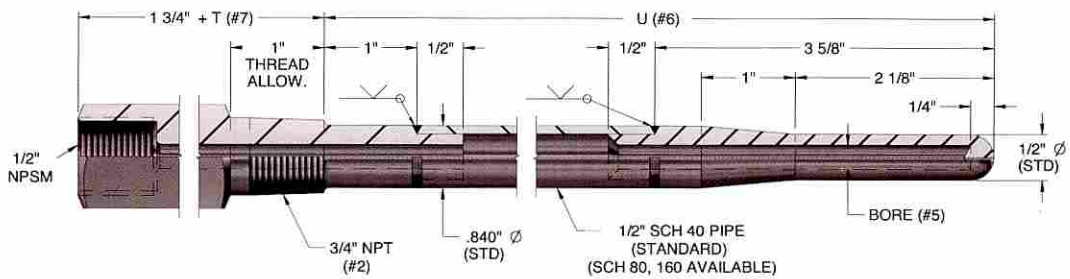
SOCKET WELD WELL DESIGN
(SERIES 52SS2)



WELD-IN WELL
(SERIES 54TW2)



BUILT-UP THERMOWELL
(SERIES 52BT2)

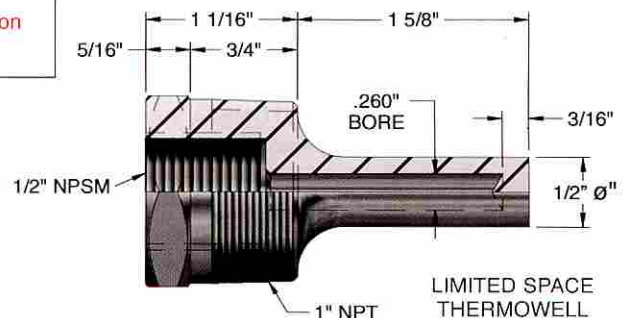


LIMITED SPACE THERMOWELLS

| #1 | DESCRIPTION |
|----|---|
| 5L | Limited Space Thermowells - Add "W" here for a plug with a chain attached to well. (i.e. 5LW) |
| #2 | WELL MATERIAL |
| H | 304 Stainless steel |
| K | 316 Stainless steel |
| M | Inconel 600 |
| X | Other, specify |
| #3 | TAGGING OPTIONS |

| 1 | STAMPING | Other |
|---|----------------------------|--|
| X | Stamped on well (Standard) | |
| Z | N/A | Note: You must always specify information required on tag |

Note: Immersion length of a spring-loaded sensor to fit this well is 2 1/2".



| | | |
|----|---|---|
| 5L | M | 1 |
|----|---|---|

FLANGED THERMOWELLS

| | | | | | | | | | | | | |
|---------------------------------------|---|--|--|---------------------------------|---|---|-----------------------|--|--|--|--|--|
| #1 | DESCRIPTION [See pages 25-27 for complete information on dimensions, velocity ratings, and pressure ratings] | | | | | | | | | | | |
| 5T | Thermowells - Add "W" here for a plug with a chain attached to well. (i.e. 5TW) | | | | | | | | | | | |
| #2 | CONFIGURATION | | | | | | | | | | | |
| A S T | Step shank (Standard) Straight shank Tapered shank | | | | B X | Built-up Thermowell (Dwg. 5-2) Other, specify | | | Note: Over 22" use "Built Up" design. See page 5-2 for drawing. | | | |
| #3 | BORE SIZE | | | | | | | | | | | |
| 2 3 X | .260" ID used for .250" OD sensors (Standard) .385" ID used for .375" OD sensors (straight or tapered only) Other, specify | | | | | | | | | | | |
| #4 | U (INSERTION) DEPTH [15] | | | | "U" DIMENSION | | | SENSOR LENGTH | | | | |
| A B C D E F G* X | 2" 4" 7" 10" 13" 16" 22" Other, specify | | | | 2" 4" 7" 10" 13" 16" 22" | | | 4" 6" 9" 12" 15" 18" 24" | | | | |
| #5 | T (LAG) EXTENSION [15] | | | | | | | | | | | |
| T= _" Z | Length in inches N/A (Standard) | | | | | | | | | | | |
| #6 | WELL MATERIAL [31-34] | | | | | | | | | | | |
| G H I J K L M N | Carbon steel 304 Stainless steel Low Carbon 304 Stainless steel 310 Stainless steel 316 Stainless steel Low Carbon 316 Stainless steel Inconel 600 Monel 400 | | | | | | O Q R S X | Hastelloy B-3 Hastelloy C-276 Tantalum Titanium Other, specify | | | Note: Special jackets & coatings are available for thermowells. Call JMS for more info. See web. | |
| #7 | SIZE OF FLANGE | | | | | | | | | | | |
| 3 4 | 1" 1 1/2" | | | | 5 X | 2" Other, specify | | | | | | |
| #8 | *FLANGE RATING | | | | | | | | | | | |
| A* B* C* D* | 150 300 400 600 | | | *lbs. rating per ASME B-16.5 | | | E* F* X | 900 1500 Other, specify | | | | |
| #9 | FACING (for opt. 3 a description must be provided) | | | | | | | | | | | |
| 1 2 3 | Raised (Standard) Flat 3 Ring Joint Type | | | | 4 5 X | Van Stone no flange Van Stone w/flange Other, specify | | | | | | |
| #10 | FLANGE MATERIAL [31-34] | | | | | | | | | | | |
| G H I J K L M | Carbon steel 304 SS Low Carbon 304 SS 310 SS 316 SS Low Carbon 316 SS Inconel 600 | | | N* O* Q* R* S* X | Monel 400 Hastelloy B-3 Hastelloy C-276 Tantalum Titanium Other, specify | | | | | | * Economical alternative available. See web. | |
| #11 | TAGGING OPTIONS | | | | | | | | | | | |
| 1 X Z | STAMPING | | Stamped on well (Standard) Other N/A Note: You must always specify information required on tag | | | | | | | | | |

Series 5TS

SPECIFY FLANGE SIZE, RATING, & MATERIAL (#7 - #10)

VAN STONE SERIES 5TS

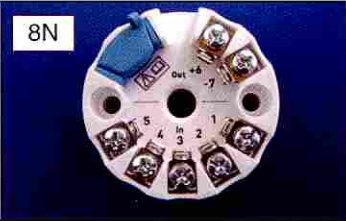
SPECIFY OPTIONAL VAN STONE BACKING FLANGE SIZE, RATING, & MATERIAL (#7 - #10) IF NEEDED (OPTIONAL BACKING FLANGE IS NOT ATTACHED TO TW)

| Van Stone Dimensions Chart | | | |
|----------------------------|-------------------|---------------------------|-------------|
| | P (stem diameter) | R (sealing face diameter) | Flange Bore |
| 1" | 1.315" | 2" | 1.375" |
| 1 1/2" | 1.900" | 2.875" | 1.970" |
| 2" | 2.375" | 3.625" | 2.46" |

| | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|
| 5T | A | 2 | C | Z | H | 4 | A | 1 | H | 1 |
|----|---|---|---|---|---|---|---|---|---|---|

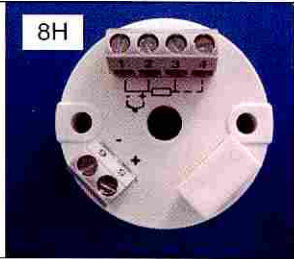
NON-ISOLATED TRANSMITTERS

| | | | |
|--|--|--------------------------|---|
| #1 | DESCRIPTION [8-13] | | |
| 8N | Transmitter, Non-Isolated | | |
| #2 | INPUT | | |
| J* T* K* E* S* R* | Iron/Constantan thermocouple Copper/Constantan thermocouple Chromel/Alumel thermocouple Chromel/Constantan thermocouple Platinum 10% Rhodium/Pure Platinum thermocouple Platinum 13% Rhodium/Pure Platinum thermocouple | B* N* C* 3 X | Platinum 6% Rhodium/Platinum 30% Rhodium thermocouple Nicrosil/Nisil thermocouple Tungsten 5% Rhenium / Tungsten 26% Rhenium T/C 100Ω, Platinum, a=.00385, RTD Other, specify |
| 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 _ to _ °F X | List desired temperature span List desired temperature span Other, specify | | |
| #4 | OUTPUT | | |
| 4 X | 4 to 20 mA Other, specify | | |
| #5 | MOUNTING | | |
| A B X Z | Dual mounting bracket Dual mounting bracket with 12" cuttable mounting track Other, specify N/A | | } For panel mounting |
| #6 | SOFTWARE [8-19] | | |
| A Z | Yes - range at factory No - range at factory | | |



ISOLATED TRANSMITTERS

| | | | |
|---|--|---|--|
| #1 | DESCRIPTION [8-14 through 8-17] | | |
| 8 | Transmitter (Add "R" for DIN Rail Style for transmitter options H, I, D, and E, see selection #2) | | |
| #2 | TYPE OF TRANSMITTER | I / O ISOLATION | HART |
| H* C A S B I* E* D* X | Standard TempIR CAL 9400 (See pg. 8-5, 8-6) AI-1000 (See pg. 8-8, 8-9) AI-1500 (See pg. 8-10, 8-11) AI-2000 (See pg. 8-12) TempIR with Hart Protocol Intrinsically safe TempIR TempIR / Hart / Intrinsically safe Other | 1500 VAC 1000 VAC 500 VAC 500 VAC 850 VAC 1500 VAC 3750 VAC 3750 VAC | No No No Yes No Yes No Yes |
| #3 | INPUT | | |
| J T K E S R B | Iron/Constantan thermocouple Copper/Constantan thermocouple Chromel/Alumel thermocouple Chromel/Constantan thermocouple Platinum 10% Rhodium/Pure Platinum thermocouple Platinum 13% Rhodium/Pure Platinum thermocouple Platinum 6% Rhodium/Platinum 30% Rhodium | N C 3 X Z | Nicrosil/Nisil thermocouple Tungsten 5% Rhenium / Tungsten 26% Rhenium thermocouple 100Ω, Platinum, a=.00385, RTD Other, specify N/A |
| #4 | TEMPERATURE RANGE | | |
| _ to _ °C _ to _ °F X Z | List desired temperature span List desired temperature span | | Other, specify N/A |
| #5 | OUTPUT | | |
| 4 X | 4 to 20 mA Other, specify | P F | Profibus Fieldbus |
| #6 | SOFTWARE | | |
| A Z | Yes - range at factory No - range at factory | | |



Note: DIN Rail Style available for transmitter options H, I, D, E (See 8R photo above).