# MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER

The Reotemp Model W Explosion Proof Field Mounted HART Temperature Transmitter features a local display, HART compatibility, and a 4-20mA output. The field mounted transmitter is available as a complete RTD or thermocouple assembly customized to your process.

Made in USA


## FEATURES / BENEFITS

- RTD or TC Input, Analog Output
- High Definition Local Operator Interface (LOI) with 3 Optical Buttons
- Selectable Red or White Backlight
- Ex d Explosion Proof / Flame Proof Aluminum Head
- HART 7 Functionality with HART 5 Compatibility

## HIGH DEFINITION DISPLAY

- 0, 90, 180, & 270 degree position adjustments
- Monitoring, programming and diagnostics view
- Extensive diagnostics with flashing red or white backlight

## LOCAL OPERATOR INTERFACE (LOI)

- 3 optical buttons; up, down and enter
- Dynamically adaptive to wear or accumulation of dirt
- Immune to interference from ambient light sources
- Useable with or without gloves

## CONFIGURATION

- From the LOI through guided menu
- PReset and HART modem
- HHC, DCS or AMS via HART

## MOUNTING / INSTALLATION

- For installation in zone 0, 1, 2 and zone 20, 21, 22 and in Class 1, Division 1 and 2 applications
- Hardware assessed for use in SIL 2 applications
- Mounting on 1.5”–2” pipe bracket or on wall / bulkhead

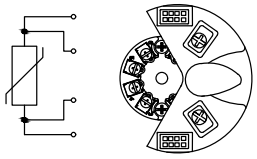
## APPLICATION

- Linearized temperature measurement with TC and RTD sensors e.g. Pt100 and Ni100
- HART communication and 4...20 mA analog PV output for individual, difference or average temperature measurement of up to two RTD or TC input sensors
- Up to 63 transmitters (HART 7) can be connected in a multidrop communication setup

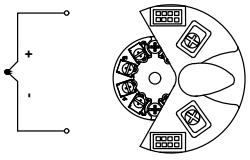
## TECHNICAL CHARACTERISTICS

- NAMUR NE43 and NE89
- HART protocol revision can be changed by user configuration to either HART 5 or HART 7 protocol

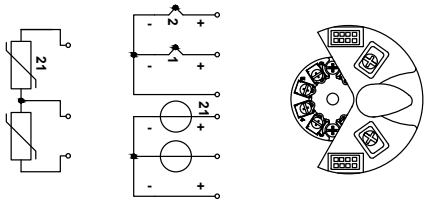
**RTD to 4-20 mA**



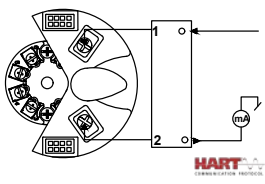
**TC to 4-20 mA**



**Difference or Average RTD, TC or mV**




**2-wire Output and HART**




**Ex ia: 10-30 VDC (12-30 VDC with backlight)**
**Other: 10-35 VDC (12-35 VDC with backlight)**

**4-20 mA**

TRANSMITTERS

# MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER

## SPECIFICATIONS

| Environmental Conditions | |
|---|---|
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -40°C to +85°C |
| Calibration Temperature | 20...28°C |
| Relative humidity | 0...100% RH (condensing) |
| Protection degree | IP54 / IP66 / IP68 / type 4X |
| **Mechanical Specifications** | |
| Dimensions | Ø 110 mm |
| Dimensions (HxWxD), aluminum | 109.3 x 145 x 126 mm |
| Weight approx. | 1.3kg |
| Wire size | 0.13 x1.5 $mm^2$ / AWG 26...16 stranded wire |
| Screw terminal torque | 0.4 Nm |
| Vibration | IEC 60068-2-6 |
| 2...25 Hz | ±1.6 g |
| 25...100 Hz | ±4 g |
| Number of digits | 5 |
| Backlight | Selectable ON/OFF |
| Backlight color | Selectable white or red |
| **Common Specifications** | |
| Supply voltage, DC: Ex ia, intrinsically safe | 10 (12 - with backlight)...30 VDC |
| Supply voltage, DC: Other | 10 (12 - with backlight)...35 VDC |
| Isolation voltage, test / working | 1.5 kVAC / 50 VAC |
| Response time (programmable) | 1...60 s |
| Signal / noise ratio | > 60 dB |
| Programming | HART |
| Start-up time, transmitter to display | Max. 5 s |
| Long-term stability, better than | ±0.1% of span / year |
| Transmitter Accuracy | Better than 0.05% of selected range |
| Signal dynamics, input | 22 bit |
| Signal dynamics, output. | 16 bit |
| EMC immunity influence | < ±0.1% of span |
| Extended EMC immunity: NAMUR NE21, A criterion, burst | < ±1% of span |
| Max. offset. | 50% of selected max. value |

| Input Specifications | |
|---|---|
| RTD type | Pt50/100/200/500/1000; Ni50/100/120/1000 |
| Cable resistance per wire | 5 Ω (up to 50 Ω per wire is possible with reduced measurement accuracy) |
| Sensor current | Nom. 0.2 mA |
| Thermocouple type | B, E, J, K, N, R, S, T |
| Cold junction compensation (CJC) | Constant, internal or external via a Pt100 or Ni100 sensor |
| **Output Specifications** | |
| Signal range | 4…20 mA |
| Min. signal range | 16 mA |
| Load (@ current output) | ≤ (Vsupply - 10) / 0.023 [Ω] |
| Load resistance, with backlight | ≤ (Vsupply - 12) / 0.023 [Ω] |
| Sensor error indication | Programmable 3.5…23 mA |
| NAMUR NE43 Upscale/ Downscale | 23 mA / 3.5 mA |
| Updating time | 440 ms |
| HART protocol revisions | HART 7 and HART 5 |
| **Observed Authority Requirements** | |
| EMC | 2014/30/EU |
| EAC | TR-CU 020/2011 |
| **Approvals** | |
| EU RO Mutual Recognition Type Approval | MRA0000009 |
| ATEX 2014/34/EU | DEKRA 15 ATEX 0058 X |
| IECEx | IECEx DEK 15.0039 X |
| FM | FM16US0009X / FM16CA0010X |
| CSA | 70024231 |
| EAC Ex TR-CU 012/2011 | RU C-DK.GB08.V.01316 |
| INMETRO | DEKRA 15.0014 X |
| NEPSI | GYJ15.1336X, GYJ15.1337X and GYJ15.1338X |
| SIL | Hardware assessed for use in SIL applications |

# MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (DIRECT MOUNT RTD)

**BUILD YOUR MODEL W (DIRECT MOUNT):** Choose options to build a part number. For example: WHY1TPX1256X-TS

W | H | Y

## HEAD STYLE

W — Explosion Proof Field Mounted HART Direct Mount Transmitter with Display

FM, CSA, ATEX, IEC, IECex

## HEAD OPTIONS

**H** = 1/2" Conduit

## TRANSMITTER

**Y** = 4-20mA 2-wire HART Transmitter

1T | PX

## THREADED CONNECTIONS

*Use a spring loaded connection with a thermowell. Use a welded connection when the stem goes directly into the process medium. All threaded connections have 316 stainless steel fittings.*

*Threaded Connections*
**1T** = Spring-loaded 316SS Hex Bushing
**4T** = 5" Nominal Spring Loaded Nipple-Union-Nipple 316SS
**2T** = 2.5" Spring Loaded Nipple 316SS
**7T** = Spring Loaded Explosion Proof Bushing 316SS
**5T** = Nipple-Union-Nipple Spring Loaded Explosion Proof Bushing, Explosion Proof Union

*Welded Fittings*
**1F** = Welded Hex Bushing 316SS
**4F** = Nipple-Union-Nipple Welded 316SS
**6F** = Stainless Steel Bushing, 1/2" NPT, No Process Threads

*Welded Fittings with Compression Fitting Loose on Stem*
**6FT** = SS Welded Bushing with 1/4" NPT Comp Fitting "Set Once" Loose On Stem
**6FU** = SS Welded Bushing with 1/2" NPT Comp Fitting "Set Once" Loose On Stem
**6FV** = SS Welded Bushing with 1/8" NPT Comp Fitting "Set Once" Loose On Stem

*Other Nipple-Union-Nipple (N-U-N)*
**4T3** = 3" Nominal Spring Loaded N-U-N
**4T4** = 4" Nominal Spring Loaded N-U-N
**4T6** = 6" Nominal Spring Loaded N-U-N
**4T7** = 7" Nominal Spring Loaded N-U-N

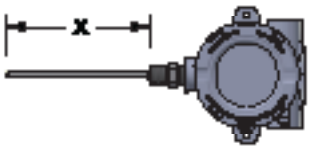
*Nipples*
**2T3** = 3" Spring Loaded Nipple
**2T4** = 4" Spring Loaded Nipple
**2T5** = 5" Spring Loaded Nipple
**2T6** = 6" Spring Loaded Nipple
**2T7** = 7" Spring Loaded Nipple
**2T8** = 8" Spring Loaded Nipple

*Special Fittings*
**8T** = Spring Loaded Terminal Block, No Fitting 1/2" NPT Female Head Opening

## RTD SENSOR

| Type | Code | Material/Class | Ω at 0°C | Accuracy at 0°C(Ω) |
|---|---|---|---|---|
| Standard DIN B Platinum 100Ω | PX* | Pt/385/B | 100Ω | ± 0.12% |
| Platinum 100Ω with Other Accuracies | PA* | Pt/385/A | 100Ω | ± 0.06% |
| | PD* | Pt/385/A3 | 100Ω | ± 0.03% |
| | PE* | Pt/385/A5 (1/10 B) | 100Ω | ± 0.01% |
| Other RTDs | PK* | Pt/385/B | 1000Ω | ± 0.12% |
| | PH* | Pt/385/A | 1000Ω | ± 0.06% |
| | PM | Pt/385/B | 500Ω | ± 0.12% |
| | NI | Nickel/6725 | 120Ω | ± 0.50% |

*Available in Reotemp Extended temperature RTDs.




1 | 25 | 6 | X | -TS

## TEMPERATURE RANGE

**1** = -328°F/400°F (Standard)
**2** = Extended Range -328°F/1100°F (Only Available on PX, PA, PD, PH, PE, or PK RTDs)

## STEM DIAMETER

**25** = 0.250"
**12** = 0.125"
**18** = 0.188"
**37** = 0.375"

## STEM LENGTH

**?** = Stem Length in Inches

## NUMBER OF RTDs/LEADS

**X** = Single 3-wire
**XX** = Duplex 3-wire
**Y** = Single 4-wire
**YY** = Duplex 4-wire
**W** = Single 2-wire
**WW** = Duplex 2-wire

## OPTIONS

**-TS** = Tag, Stainless
**-R1** = One Point Calibration Cert (Reotemp Chooses Points)
**-R3** = Three Point Calibration Cert (Reotemp Chooses Points)

*Additional Options Available*

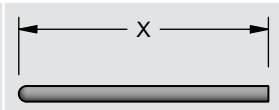
## MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (REMOTE MOUNT RTD)

**BUILD YOUR MODEL W (REMOTE MOUNT):** Choose options on this page to begin the remote mount RTD stem part number. Then, add the stem part number to lead wire part number generated on page 157. For example: APX1256X-LR3A36T2RHWYA-TS

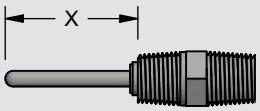
**A** | **[ ]**

### STYLE

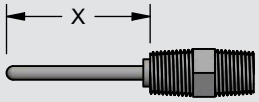
**A** — Plain Stem (Lead Assembly)



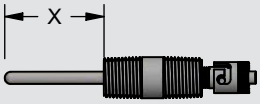

**H** — Spring Loaded Bushing



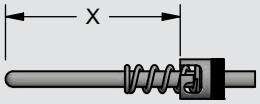

**B** — Welded SS Bushing



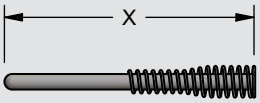

**P** — 1/2" NPT Nipple w/ Bayonet



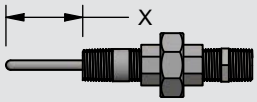

**R** — Bayonet Cap w/ Spring




**S** — Load Spring Only



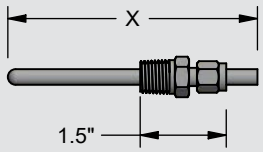

**4T** — 5" Nominal Spring Loaded N-U-N 316SS



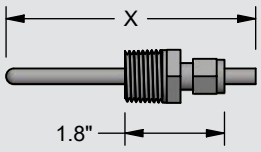

### STEM OPTIONS (OPTIONAL)

*Leave blank for no stem option.*

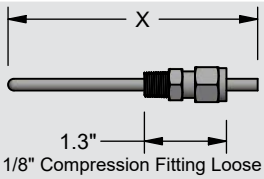
**T*** — 1/4" NPT Sliding Compression Fitting Loose On Plain 316SS Stem, 1.5" Length



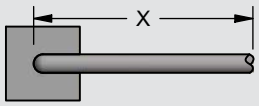

**U*** — 1/2" NPT Sliding Compression Fitting Loose On Plain 316SS Stem, 1.8" Length




**V*** — 1/8" Compression Fitting Loose on Plain 316SS Stem, 1.3" Length




**W** — Weld Pad, 1"x1"x1/8"




*These fittings decrease usable stem length by the length of the fitting as pictured above. Add the fitting size to the required stem length or your stem may be short.

**PX** | **1** | **25** | **6** | **X**

### RTD SENSOR

| Type | Code | Material/Class | Ω at 0°C | Accuracy at 0°C(Ω) |
|---|---|---|---|---|
| Standard DIN B Platinum 100Ω | **PX*** | Pt/385/B | 100Ω | ± 0.12% |
| Platinum 100Ω with Other Accuracies | **PA*** | Pt/385/A | 100Ω | ± 0.06% |
| | **PD*** | Pt/385/A3 | 100Ω | ± 0.03% |
| | **PE*** | Pt/385/A5 (1/10 B) | 100Ω | ± 0.01% |
| Other RTDs | **PK*** | Pt/385/B | 1000Ω | ± 0.12% |
| | **PH*** | Pt/385/A | 1000Ω | ± 0.06% |
| | **PM** | Pt/385/B | 500Ω | ± 0.12% |
| | **NI** | Nickel/6725 | 120Ω | ± 0.50% |

*Available in Reotemp Extended temperature RTDs.

### TEMPERATURE RANGE

**1** = -328°F/400°F (Standard)
**2** = Extended Range -328°F/1100°F (Only Available on PX, PA, PE, PK, PD, or PH RTDs)

### STEM DIAMETER

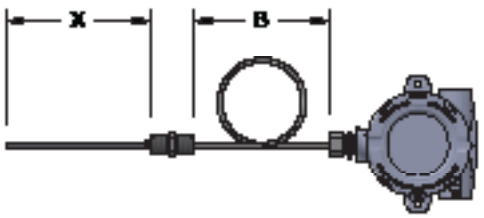
**25** = 0.250"
**12** = 0.125"
**18** = 0.188"
**37** = 0.375"

### STEM LENGTH "X"

**?** = Stem Length in Inches

### NUMBER OF RTDs/LEADS

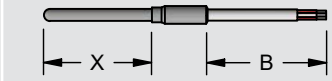
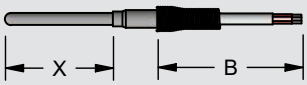
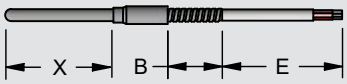
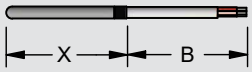
**X** = Single 3-wire
**XX** = Duplex 3-wire
**Y** = Single 4-wire
**YY** = Duplex 4-wire
**W** = Single 2-wire
**WW** = Duplex 2-wire




TRANSMITTERS

## MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (REMOTE MOUNT RTD)

| -L | R | 3 | A |
|---|---|---|---|
| LEAD WIRE | SENSOR TYPE | NUMBER OF LEADS | TRANSITION TYPE |
| -L = Lead Wire | R = RTD | 2 = 2-Wire RTD<br>3 = 3-Wire RTD<br>4 = 4-Wire RTD or Duplex 2-Wire RTD<br>6 = Duplex 3-Wire RTD<br>8 = Duplex 4-Wire RTD | |

| | | |
|---|---|---|
| P |  | Plain (Standard) |
| S |  | Spring |
| A |  | Armor |
| L |  | Same Size |

| 36 | T2 | RHWY |
|---|---|---|
| WIRE OR ARMOR LENGTH "B" | INSULATION & CONDUCTOR | WIRE TERMINATION |
| ?? = "B" Length in Inches | T2 = Teflon with 24 AWG Stranded Wire<br>T3 = Teflon with 20 AWG Stranded Wire<br>A2 = Teflon with 24 AWG Stranded Wire, Mylar Shield & Drain<br>F2 = Fiberglass with 24 AWG Stranded Wire | |

| | | | |
|---|---|---|---|
|  | RHWY | Cord Grip with Explosion Proof Field Mounted HART Transmitter with Display, 3/4" Conduit, 4-20mA 2-wire HART Transmitter | FM, CSA, ATEX, IEC, IECex |

| A | -TS |
|---|---|
| WIRE PROTECTION (OPTIONAL) | OPTIONS |
| = Leave Blank for No Armor Protection<br>A = Stainless Steel Armor<br>P = PVC Coated Stainless Steel Armor<br>T = Teflon Coated Stainless Steel Armor<br>O = Stainless Steel Overbraid | -TS = Tag, Stainless<br>-R1 = One Point Calibration Cert (Reotemp Chooses Points)<br>-R3 = Three Point Calibration Cert (Reotemp Chooses Points)<br><br>*Additional Options Available* |

## MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (DIRECT MOUNT THERMOCOUPLE)

**BUILD YOUR MODEL W (DIRECT MOUNT TC):** Choose options to build a part number. For example: WHY1TM25K1SG6-TS

| W | H | Y |
|---|---|---|
| HEAD STYLE | HEAD OPTIONS | TRANSMITTER |
|  W — Explosion Proof Field Mounted HART Direct Mount Transmitter with Display — FM, CSA, ATEX, IEC, IECex | H = 1/2" Conduit | Y = 4-20mA 2-wire HART Transmitter |

| 1T | M | 25 | K |
|---|---|---|---|
| THREADED CONNECTIONS | METAL SHEATH | SHEATH DIAMETER | THERMOCOUPLE TYPE |

*Use a spring loaded connection with a thermowell. Use a welded connection when the stem goes directly into the process medium. All threaded connections have 316 stainless steel fittings.*

*Threaded Connections*
- **1T** = Spring-loaded 316SS Hex Bushing
- **4T** = 5" Nominal Spring Loaded Nipple-Union-Nipple 316SS
- **2T** = 2.5" Spring Loaded Nipple 316SS
- **7T** = Spring Loaded Explosion Proof Bushing 316SS
- **5T** = Nipple-Union-Nipple Spring Loaded Explosion Proof Bushing, Explosion Proof Union

*Welded Fittings*
- **1F** = Welded Hex Bushing 316SS
- **4F** = Nipple-Union-Nipple Welded 316SS
- **6F** = Stainless Steel Bushing, 1/2" NPT, No Process Threads

*Welded Fittings with Compression Fitting Loose on Stem*
- **6FT** = SS Welded Bushing with 1/4" NPT Comp Fitting "Set Once" Loose On Stem
- **6FU** = SS Welded Bushing with 1/2" NPT Comp Fitting "Set Once" Loose On Stem
- **6FV** = SS Welded Bushing with 1/8" NPT Comp Fitting "Set Once" Loose On Stem

*Other Nipple-Union-Nipple (N-U-N)*
- **4T3** = 3" Nominal Spring Loaded N-U-N
- **4T4** = 4" Nominal Spring Loaded N-U-N
- **4T6** = 6" Nominal Spring Loaded N-U-N
- **4T7** = 7" Nominal Spring Loaded N-U-N

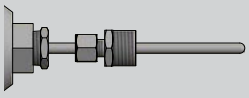
*Nipples*
- **2T3** = 3" Spring Loaded Nipple
- **2T4** = 4" Spring Loaded Nipple
- **2T5** = 5" Spring Loaded Nipple
- **2T6** = 6" Spring Loaded Nipple
- **2T7** = 7" Spring Loaded Nipple
- **2T8** = 8" Spring Loaded Nipple

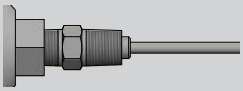
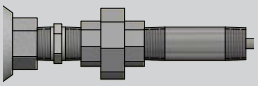
*Special Fittings*
- **8T** = Spring Loaded Terminal Block, No Fitting 1/2" NPT Female Head Opening

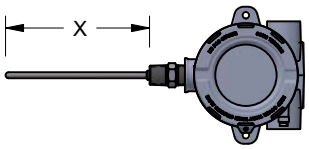
**M** = Metal Sheathed Thermocouple

- **06** = 0.062 in
- **12** = 0.125 in
- **18** = 0.188 in
- **25** = 0.250 in
- **37** = 0.375 in

- **J** = Type J
- **K** = Type K
- **E** = Type E
- **T** = Type T
- **JS** = Type J Special Limits of Error
- **KS** = Type K Special Limits of Error
- **ES** = Type E Special Limits of Error
- **TS** = Type T Special Limits of Error

| Connection Types | | |
|---|---|---|
| 6FT, 6FU, 6FV | Compression Fitting |  |
| 6F | No Process Threads |  |

| Connection Types | | |
|---|---|---|
| 1T, 7T, 1F | Hex Bushing |  |
| 2T | Pipe Nipple |  |
| 4T3, 4T, 5T, 4F, etc. | Nipple-Union-Nipple (N-U-N) |  |




| 1 | S | G | 6 | -TS |
|---|---|---|---|---|
| SHEATH MATERIAL | NUMBER OF ELEMENTS | TYPE OF JUNCTION | STEM LENGTH "X" | OPTIONS |

- **1** = 316 Stainless Steel
- **2** = 310 Stainless Steel
- **3** = 304 Stainless Steel
- **5** = Inconel 600

- **S** = Single Element Assembly
- **D** = Dual Element Assembly

- **G** = Grounded Elements
- **E** = Exposed Elements
- **U** = Ungrounded Elements
- **UU** = Ungrounded Uncommon Elements

*Stem length measured from bottom of threads to stem tip.*
- **???** = Stem length in inches.

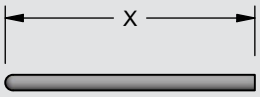
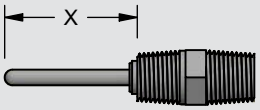
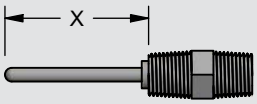
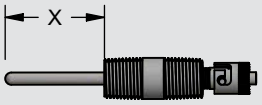
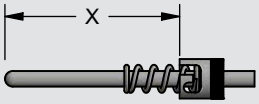
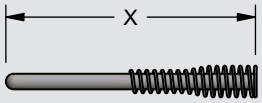
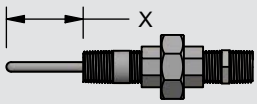
- **-TS** = Tag, Stainless
- **-R1** = One Point Calibration Cert (Reotemp Chooses Points)
- **-R3** = Three Point Calibration Cert (Reotemp Chooses Points)

*Additional Options Available*

## MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (REMOTE MOUNT THERMOCOUPLE)

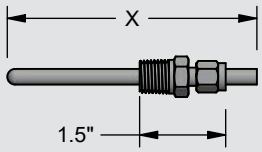
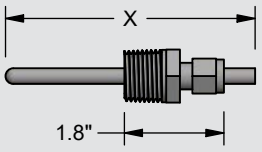
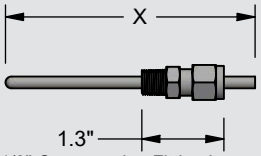
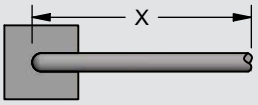
**BUILD YOUR MODEL W REMOTE MOUNT THERMOCOUPLE:** Choose options to build a part number. For example: ATM12J1SG6-LJ2S36T2RHWHYA-TS

**A** — **STYLE**

| | | | |
|---|---|---|---|
| A |  Plain Stem (Lead Assembly) | H |  Spring Loaded Bushing |
| B |  Welded SS Bushing | P |  1/2" NPT Nipple w/ Bayonet |
| R |  Bayonet Cap w/ Spring | S |  Load Spring Only |
| 4T |  5" Nominal Spring Loaded N-U-N 316SS | | |

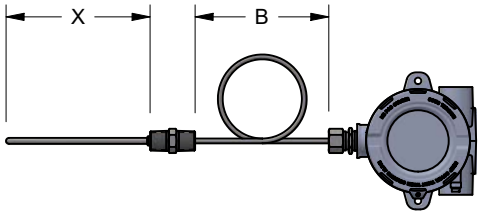
**T** — **STEM OPTIONS (OPTIONAL)**

*Leave blank for no stem option.*

| | | | |
|---|---|---|---|
| T* |  1/4" NPT Sliding Compression Fitting Loose On Plain 316SS Stem, 1.5" Length | U* |  1/2" NPT Sliding Compression Fitting Loose On Plain 316SS Stem, 1.8" Length |
| V* |  1/8" Compression Fitting Loose on Plain 316SS Stem, 1.3" Length | W |  Weld Pad, 1"x1"x1/8" |

*These fittings decrease usable stem length by the length of the fitting as pictured above. Add the fitting size to the required stem length or your stem may be short.

| M | 12 | J | 1 | S | G | 6 |
|---|---|---|---|---|---|---|
| METAL SHEATH | SHEATH DIAMETER | ANSI TYPE THERMOCOUPLE | TYPE OF SHEATH MATERIAL | NUMBER OF ELEMENTS | TYPE OF JUNCTION | STEM LENGTH "X" |
| M = Metal Sheathed Thermocouple | 06 = 0.062 in<br>12 = 0.125 in<br>18 = 0.188 in<br>25 = 0.250 in<br>37 = 0.375 in | J = Type J<br>K = Type K<br>E = Type E<br>T = Type T<br>JS = Type J Special Limits of Error<br>KS = Type K Special Limits of Error<br>ES = Type E Special Limits of Error<br>TS = Type T Special Limits of Error | 1 = 316 Stainless Steel<br>2 = 310 Stainless Steel<br>3 = 304 Stainless Steel<br>5 = Inconel 600 | S = Single Element Assembly<br>D = Dual Element Assembly | G = Grounded<br>U = Ungrounded<br>E = Exposed<br>UU = Ungrounded Uncommon | ?? = Stem Length in Inches |



## MODEL W FIELD MOUNTED HART TEMPERATURE TRANSMITTER (REMOTE MOUNT THERMOCOUPLE)

**-L** | **J** | **2** | **S**

### LEAD WIRE

**-L** = Lead Wire

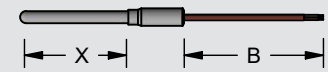
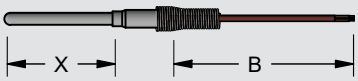
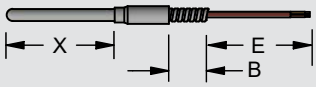
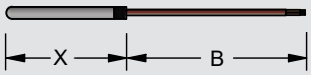
### THERMOCOUPLE TYPE

**J** = Type J Thermocouple
**K** = Type K Thermocouple
**E** = Type E Thermocouple
**T** = Type T Thermocouple

### NUMBER OF LEADS

**2** = Single Thermocouple
**4** = Duplex Thermocouple

### TRANSITION TYPE

| | | |
|---|---|---|
| **P** |   | Plain Transition |
| **S** |   | Spring Transition |
| **A** |   | Armor Transition |
| **L** |   | Same Size |

**36** | **T2** | **RHWHY**

### WIRE OR ARMOR LENGTH "B"

**??** = Insert "B" Length in Inches

### INSULATION /CONDUCTOR

**T1** = Teflon, 20 AWG, Solid
**F1** = Fiberglass, 20 AWG, Solid
**T2** = Teflon, 20 AWG, Stranded
**F2** = Fiberglass, 20 AWG, Stranded (J&K Only)
**P1** = PVC, 20 AWG, Solid

### WIRE TERMINATION

| | | | |
|---|---|---|---|
|  | **RHWHY** | Cord Grip with Explosion Proof Field Mounted HART Transmitter with Display, 1/2" Conduit, 4-20mA 2-wire HART Transmitter | FM, CSA, ATEX, IEC, IECex |

**A** | **-TS**

### WIRE PROTECTION (OPTIONAL)

= Leave Blank for No Armor Protection
**A** = Stainless Steel Armor
**P** = PVC Coated Stainless Steel Armor
**T** = Teflon Coated Stainless Steel Armor
**O** = Stainless Steel Overbraid

### OPTIONS

**-TS** = Tag, Stainless
**-R1** = One Point Calibration Cert (Reotemp Chooses Points)
**-R3** = Three Point Calibration Cert (Reotemp Chooses Points)

*Additional Options Available*

# HAZARDOUS LOCATION CERTIFIED THERMOCOUPLE & RTD OPTIONS

| | | Thermocouple | RTD |
|---|---|---|---|
| **CERTIFICATION OPTIONS** | | | |
| **-R1** | 1 Point Calibration Certification, Reotemp Chooses | ✓ | ✓ |
| **-R3** | 3 Point Calibration Certification, Reotemp Chooses | ✓ | ✓ |
| **-C1** | 1 Point Calibration Certification, Customer Chooses | ✓ | ✓ |
| **-C3** | 3 Point Calibration Certification, Customer Chooses | ✓ | ✓ |
| **-CC** | Certificate of Conformance | ✓ | ✓ |
| **-CS** | NIST Calibration Sticker (No Logged Points) | ✓ | ✓ |
| **OTHER OPTIONS** | | | |
| **-VB** | Hi-Vibration | N/A | ✓ |
| **-AC** | Hi-Accuracy | N/A | ✓ |
| **-PS** | Pointed Stem | ✓ | ✓ |
| **-HT** | Heat Transfer Compound (2 oz) | ✓ | ✓ |
| **TAG OPTION** | | | |
| **-TS** | Stainless Steel Tag (1-10 Characters) | ✓ | |
| **-TM** | Stainless Steel Tag (11-80 Characters) | ✓ | |
| **-TP** | Paper Tag | ✓ | |

| | |
|---|---|
| ✓ | Indicates that the option is available with this model. |
| N/A | Indicates the option is not available with this model. |
| STD | Indicates standard options with no additional cost. |