

We're Your One Stop Temp Shop

Why waste valuable time searching around for temperature assembly pieces and parts? Our fully-tested, ready-to-install temperature transmitter with display assemblies feature:

- Universal TDY PC-Programmable, TDZ Smart HART®, and RIY & TIY Site-Programmable Temperature Transmitters with Displays.
- General location, hazardous area, and explosion-proof connection heads.
- Wide variety of RTD and thermocouple sensors.
- Spring-loaded fittings allow you to easily separate the sensor and transmitter from the thermowell.
- Industrial-strength stainless steel thermowells, flanges, and fittings in the sizes you need most.
- Factory Mutual (FM) approved explosion-proof temperature transmitter and connection head combinations.
- Remarkable accuracy of up to $\pm 0.014^{\circ}\text{C}$ ($\pm 0.025^{\circ}\text{F}$) using a TDZ and our Calibration Suite.
- Complete NIST-traceable calibration records available from our Calibration Suite.

One Ordering Number

Specify your complete temperature transmitter assembly using one simple table and ordering number.

Certifications

TDY & TDZ PC-Programmable Temperature Transmitters:



Factory Mutual Research Corporation (FMRC) Global Explosion-Proof* – [HP in BH]
Class I, Division 1, Groups A, B, C, D
Non-Incendive – [HPP] Class I, Div. 2, Groups A,B,C,D
Dust Ignition-Proof – [HP in BH]
Class II & III, Division 1, Groups E, F, & G;
NEMA 4X; IP66; T6 @ 60°C Max. Amb.



CE Conformant, EMC Directive 89/336/EEC
EN 50081-2, 1993 and EN 50082-2, 1995

RIY & TIY Site-Programmable Temperature Transmitters:



Factory Mutual Research Corporation (FMRC) Global Explosion-Proof* – [HP in BH]
Class I, Division 1, Groups A, B, C, D
Dust Ignition-Proof – [HP in BH]
Class II & III, Division 1, Groups E, F, & G;



Canadian Standards Association (CSA) Non-Incendive – [HP] Class I, Div. 2, Groups A, B, C, D
Suitable For – [HP] Class II, Div. 2, Class III, Divs. 1 & 2



CE Conformant, EMC Directive 89/336/EEC
EN 50081-2, 1993 and EN 50082-2, 1995

Optional Approvals: FMRC Non-Incendive, CSA Explosion-Proof, and SAA, FMRC, ATEX, and NEPSI Intrinsically Safe are also available. Consult factory for details.

* Factory Mutual Explosion-Proof certifications apply to the temperature transmitter (TDY, TDZ, RIY, TIY) and Connection Head combination. Sensor, Thermowell and Fixed Immersion Sensor assembly components are not included in the certifications. For Group A, seal all conduits within 18".



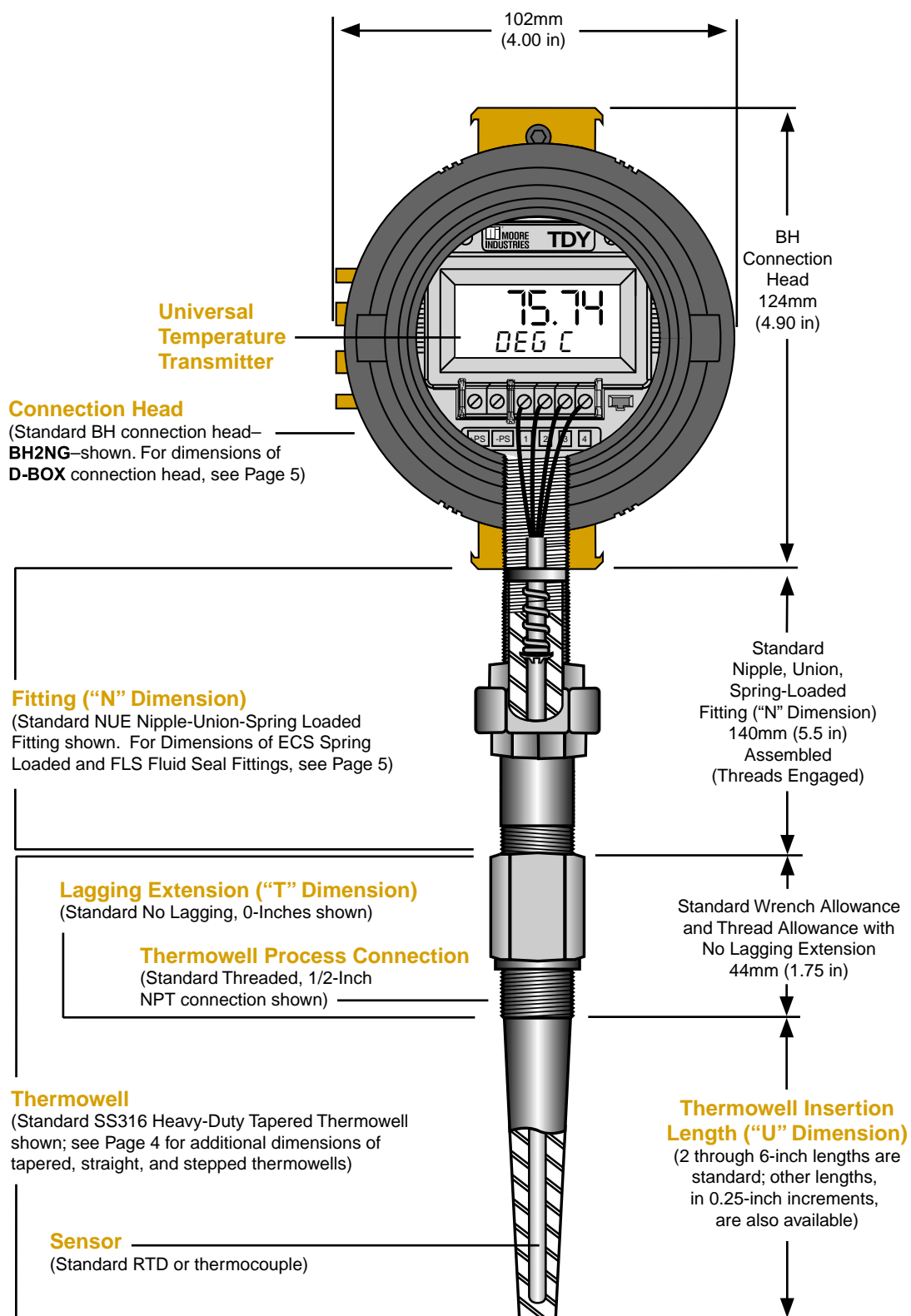
Selection Guide

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RTI2

Ready-to-Install TDY, TDZ, RIY, & TIY
Temperature Transmitter & Display Assemblies

Standard Temperature Assemblies with Sensor and Thermowell



Select one from each category to order a **Temperature Assembly with Sensor and Thermowell**:**Universal Temperature Transmitter** (See Page 8, and the TDY, TDZ, RIY, and TIY Data Sheets for Specifications)

- TDY** Isolated, PC-Programmable Temperature Transmitter with Display **(standard)**
TDZ Isolated, PC-Programmable Smart HART® Temperature Transmitter with Display **(standard)**
RIY Isolated, Site-Programmable RTD Transmitter **(standard)**
TIY Isolated, Site-Programmable Thermocouple Transmitter **(standard)**

Thermowell Type (See Page 4 for Descriptions and Dimensions)

- A** Heavy-Duty Threaded, Tapered Well **(standard)**
B Standard-Duty Threaded, Straight Well **(standard)**
C Standard-Duty Threaded, Stepped Well
S Sanitary Well

Thermowell Process Connection Size (See Page 2)

- P2** Threaded, ½-Inch NPT **(standard)**
P3 Threaded, ¾-Inch NPT **(standard)**
P1 Threaded, 1-Inch NPT
F? Flanged Well, replace "?" with ordering code from Table 1 on Page 5
SW? Welded, replace "?" with size: SW1 = 1-inch, SW2 = ½-inch, SW3 = ¾-inch, SW4 = 1 ¼-inch
D? Sanitary well, replace "?" with cap diameter, 1-Inch, 2-Inch, etc. (consult factory for dimensions)

Thermowell Insertion Length ("U" Dimension) (See Page 2)

- U?** Replace "?" with any Insertion Length in 0.25-Inch increments (**2 through 6-inch lengths are standard**)

Lagging Extension Length ("T" Dimension) (See Page 2)

- T0** No Lagging, 0 Inches **(standard)**
T? Replace "?" with length in 0.25-Inch increments

Thermowell Material

- S304** SS304 **(standard)**
S316 SS316 **(standard)**
CS Carbon Steel **(standard)**
BR Brass **(standard)**

Fitting Type ("N" Dimension) (See Pages 2 and 5 for Descriptions and Dimensions)

- 26 – NUE** Nipple-Union Spring-Loaded Fitting **(standard)**
26 – ECS Spring Loaded Fitting
26 – FLS Fluid Seal Fitting

Sensor Type (See Page 8 for Specifications)

- PT14*** Platinum RTD; 3- and 4-Wire; 100 ohm; $\alpha=0.00385$ **(standard)**
PT104* Platinum RTD; 3- and 4-Wire; 1000 ohm; $\alpha=0.00385$ **(standard)**
CU4* Copper RTD; 3- and 4-Wire; 10 ohm
N4* Nickel RTD; 3- and 4-Wire; 120 ohm
TCJU† J-Type Thermocouple; Ungrounded **(standard)**
TCKU† K-Type Thermocouple; Ungrounded **(standard)**
TC?U† Replace "?" with other T/C type E, T, R, S, N, B, or C; Ungrounded
 Note: Other RTD types and grounded T/Cs are also available. Consult factory for details.

Options (See Page 7 for Descriptions)

- VTB** High accuracy temp. system calibration with NIST test data report
–VTD Standard factory calibration with NIST test data report
–RM? Remote-Mounted terminal block; replace "?" with Connection head type for the terminal block, i.e. **–RMLH2NS**. See Page 7 for details.

Connection Head (See Pages 2 and 5 for Dimensions)

- BH2NG** Aluminum Body with Clear Glass Cover, explosion-proof
D2LC Aluminum Body with Clear Valox Cover, NEMA 4X, IP66
 NOTE: All listed connection heads are standard. Other heads available.

Don't See What You Need?

This bulletin features just a sample of the wide range of temperature assembly choices we offer. Whatever your temperature assembly needs are, our temperature interface solution experts are ready to help!

TDY / C – P2 / U4 – T0 / S304 / – 26 – NUE – PT14 – VTB [BH2NG] **(Ordering Number Example)**

*RTD Sensors are not available with the TIY.

†Thermocouple Sensors are not available with the RIY.

Thermowell Selection

Figure 1. Heavy-Duty Threaded, Tapered Thermowells (Standard) are convenient to install and replace. Being heavy-duty, they will withstand a high force and high velocity factor from process fluid flow. They are easy to weld or braze for applications which require sealing.

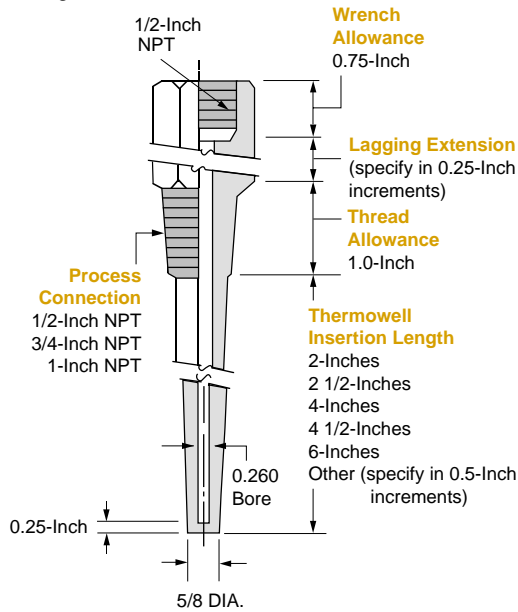


Figure 2. Standard-Duty Threaded, Straight Thermowells (Standard), convenient to install and replace, will withstand a high force and high velocity factor from the process fluid flow, but less than that of the heavy duty well because of lower natural frequency. They are easy to weld or braze for applications which require sealing.

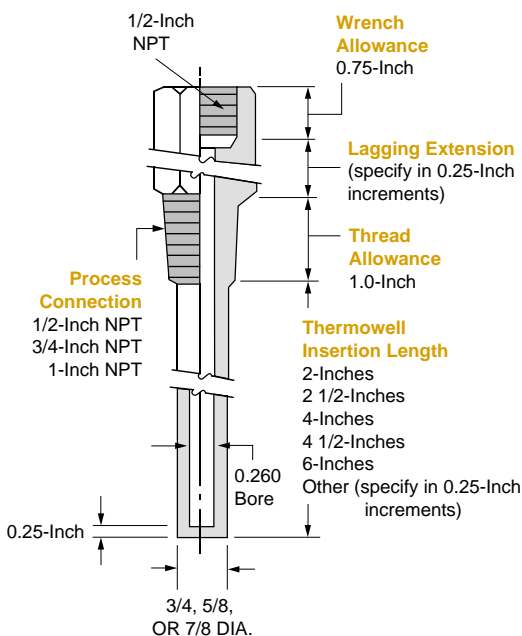


Figure 3. Standard-Duty Threaded, Stepped Thermowells (Standard), also convenient to install and replace, deliver a faster response time than tapered or straight wells, but less strength and capability to withstand high force and high velocity from the process fluid flow. They are easy to weld or braze for applications which require sealing.

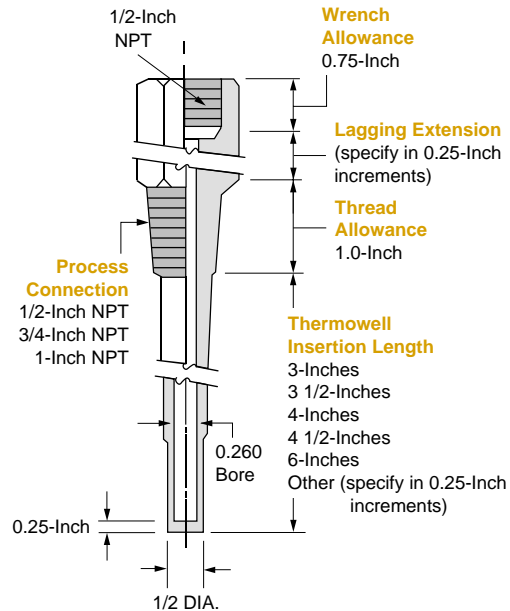
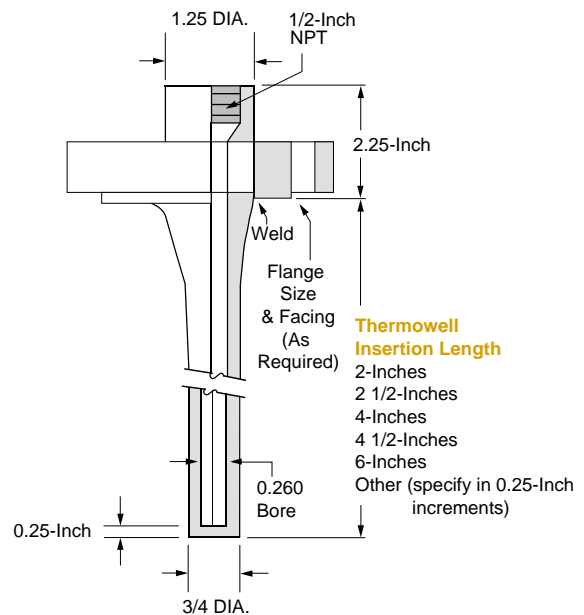


Figure 4. Flanged Thermowells provide easy removal and high pressure resistance (shown with a Straight Thermowell). Tapered and Stepped Thermowell can also be ordered as Flanged Wells. See Table 1 for available process connection flange sizes.



Socket Wells and Van Stone Wells are also available. Contact the factory for more information.

Figure 5. Dimensions for the D-BOX, a NEMA 4X, IP66 certified enclosure.

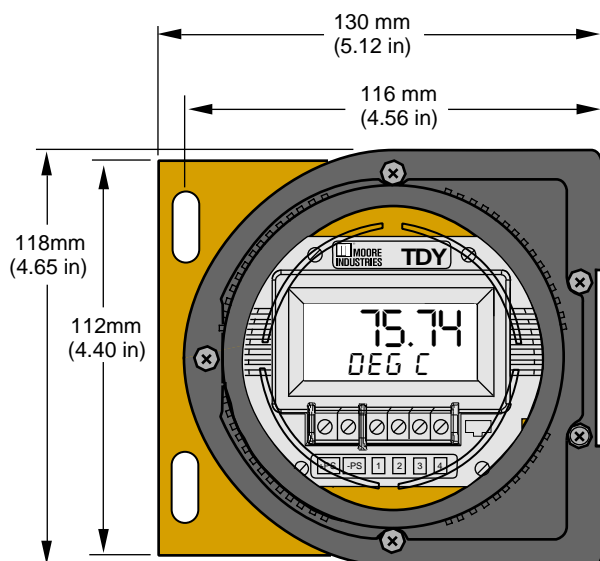


Table 1. Process Connection Flange Sizes.

| Ordering Code | Flange Size |
|---------------|--|
| F1 | 1-Inch, 150#, Flat Facing |
| F2 | 1-Inch, 150#, Raised Facing |
| F3 | 1-Inch, 150#, Ring Type Joint |
| F4 | 1 1/2-Inch, 150#, Flat Facing |
| F5 | 1 1/2-Inch, 150#, Raised Facing |
| F6 | 1 1/2-Inch, 150#, Ring Type Joint |
| F7 | 2-Inch, 150#, Flat Facing |
| F8 | 2-Inch, 150#, Raised Facing |
| F9 | 2-Inch, 150#, Ring Type Joint |
| F10 | 1-Inch, 300#, Flat Facing |
| F11 | 1-Inch, 300#, Raised Facing |
| F12 | 1-Inch, 300#, Ring Type Joint |
| F13 | 1 1/2-Inch, 300#, Flat Facing |
| F14 | 1 1/2-Inch, 300#, Raised Facing |
| F15 | 1 1/2-Inch, 300#, Ring Type Joint |
| F16 | 2-Inch, 300#, Flat Facing |
| F17 | 2-Inch, 300#, Raised Facing |
| F18 | 2-Inch, 300#, Ring Type Joint |
| F19 | 1-Inch, 400-600#, Flat Facing |
| F20 | 1-Inch, 400-600#, Raised Facing |
| F21 | 1-Inch, 400-600#, Ring Type Joint |
| F22 | 1 1/2-Inch, 400-600#, Flat Facing |
| F23 | 1 1/2-Inch, 400-600#, Raised Facing |
| F24 | 1 1/2-Inch, 400-600#, Ring Type Joint |
| F25 | 2-Inch, 400-600#, Flat Facing |
| F26 | 2-Inch, 400-600#, Raised Facing |
| F27 | 2-Inch, 400-600#, Ring Type Joint |
| F28 | 1-Inch, 900-1500#, Flat Facing |
| F29 | 1-Inch, 900-1500#, Raised Facing |
| F30 | 1-Inch, 900-1500#, Ring Type Joint |
| F31 | 1 1/2-Inch, 900-1500#, Flat Facing |
| F32 | 1 1/2-Inch, 900-1500#, Raised Facing |
| F33 | 1 1/2-Inch, 900-1500#, Ring Type Joint |
| F34 | 2-Inch, 900-1500#, Flat Facing |
| F35 | 2-Inch, 900-1500#, Raised Facing |
| F36 | 2-Inch, 900-1500#, Ring Type Joint |

Fitting Selection

Figure 6. NUE Nipple, Union, Spring-Loaded Fitting (Standard) combination fitting uses a union to allow easy assembly of the entire system. It can be adjusted as many times as required.

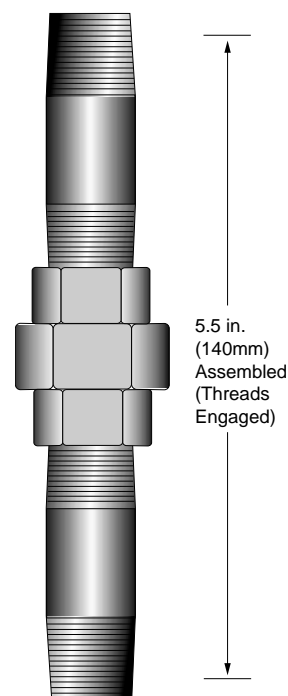


Figure 7. FLS Fluid Seal Fitting is used for transmitter assemblies with thermowells and assemblies with fixed immersion sensors. It prevents fluid leak along the sensor sheath so it's ideal for using heat transfer fluid in the thermowell and for air duct applications. Although the FLS provides adjustment precision, it crimps the sensor sheath, and can therefore be adjusted only once (up to 0.5 inch).

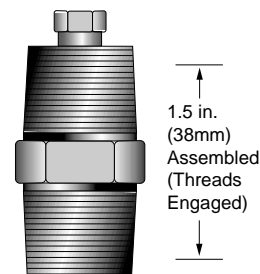
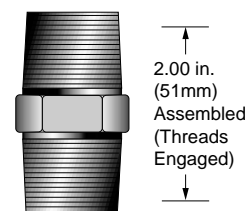


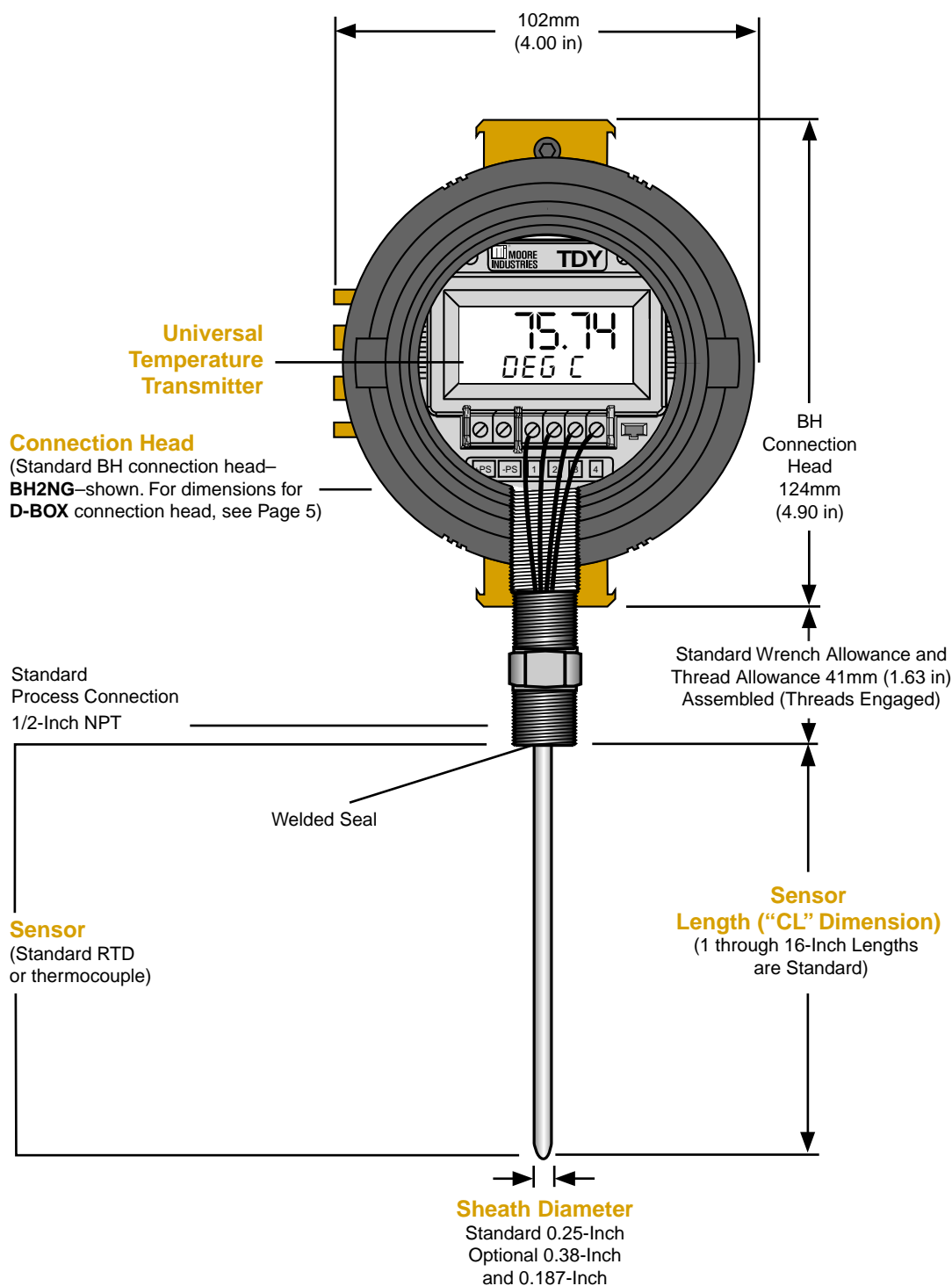
Figure 8. ECS Spring-Loaded Fittings assure a good thermal connection between the sensor and thermowell offering a quick response time.



RTI2

Ready-to-Install TDY, TDZ, RIY, & TIY
Temperature Transmitter & Display Assemblies

Standard Temperature Assemblies with Fixed Immersion Sensor



Select one from each category to order a **Temperature Assembly with Fixed Immersion Sensor**:**Universal Temperature Transmitter** (See Page 8 and TDY, TDZ, RIY, & TIY Data Sheets for Specifications)

TDY Isolated, PC-Programmable Temperature Transmitter with Display (**standard**)
TDZ Isolated, PC-Programmable Smart HART® Temperature Transmitter with Display (**standard**)
RIY Isolated, Site-Programmable RTD Transmitter (**standard**)
TIY Isolated, Site-Programmable Thermocouple Transmitter (**standard**)

Sensor Length ("CL" Dimension) (See Page 6)**CL?** Replace "?" with any Sensor Length (e.g., CL2.75, CL6) in 0.25-inch increments (**2 through 16-inch lengths are standard**)**Sensor Sheath Diameter**

D18 0.187-Inch Diameter (**standard**)
D25 0.25-Inch Diameter (**standard**)
D38 0.38-Inch Diameter

Sensor Sheath Material

S304 SS304 (**standard**)
S316 SS316 (**standard**)

Sensor Type (See Pages 7 & 8 for Specifications)

PT1C4* Platinum RTD; for 3- and 4-Wire; 100 ohm; $\alpha=0.00385$ (**standard**)
PT10C4* Platinum RTD; for 3- and 4-Wire; 1000 ohm; $\alpha=0.00385$ (**standard**)
CUC4* Copper RTD; 2-, 3-, 4-Wire; 10 ohm
NC4* Nickel RTD; 2-, 3-, 4-Wire; 120 ohm
TCCJU† J-Type Thermocouple; Ungrounded (**standard**)
TCCKU† K-Type Thermocouple; Ungrounded (**standard**)
TCC?U† Replace "?" with other T/C type E, T, R, S, N, B, or C

*RTD Sensors are not available with the TIY.
 †Thermocouple Sensors are not available with the RIY.

Options (See Page 7 for Descriptions)

-VTB High accuracy temperature system calibration with NIST test data report
-VTD Standard factory calibration with NIST test data report
-RM? Remote-Mounted terminal block; replace "?" with connection head type for the terminal block, i.e. **-RMLH2NS**. See *Remote-Mounted Terminal Block* below for details.

Connection Head (See Pages 5 and 6 for Dimensions)

BH2NG Aluminum Body with Clear Glass Cover, explosion-proof (**standard**)
D2LC Aluminum Body with Clear Valox Cover, NEMA 4X, IP66 (**standard**)

TDZ / CL6 / D25 / S316 / -TCCJU -VTB [BH2NG] (Ordering Number Example)

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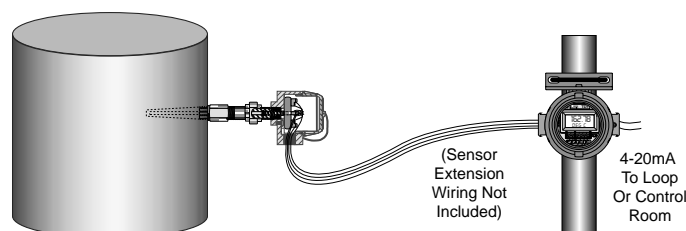
Factory Calibration Available

Sensor-to-Transmitter Trimming—Our state-of-the-art **Calibration Suite** provides exceptional accuracy by immersing the system's sensor in a precision calibration bath, then using the transmitter to "capture" the sensor's true readings. This method effectively compensates for errors caused by inherent sensor inaccuracies. The system is delivered configured, calibrated, and ready for installation. NIST traceable test data is supplied with each system. To order, specify option **-VTB** in the model number.

NIST Traceable Test Report—Moore Industries will configure the temperature transmitter and calibrate zero and span points with customer-supplied values using a precision simulated sensor input. NIST traceable test data indicating actual recorded values is supplied with each instrument. To order, specify option **-VTD** in the model number.

Remote-Mounted Terminal Block

Remove the Display From the Process—Position your sensor in the heart of your process while keeping the transmitter in an easily accessible area with our *Remote-Mounted Terminal Block* option. Add the **-RM?** option to your temperature assembly and receive a transmitter in the specified housing, and a sensor and terminal block mounted inside an additional housing. Sensor extension wiring (not included) connects the terminal block to the transmitter.



RTI2

Ready-to-Install TDY, TDZ, RIY, & TIY
Temperature Transmitter & Display Assemblies

Temperature Transmitter Specifications

Basic RIY & TIY Specifications:

Temperature Assemblies Come with Transmitter Model Numbers:

RIY / R0 / 4-20mA / 12-42DC / [HOUSING CHOICE]

TIY / J1 / 4-20mA / 12-42DC / [HOUSING CHOICE]

Input: See Table 2

Output: 4-20mA output is accurate to within $\pm 0.05\%$ of input span

Power: 12-42Vdc (loop-powered on output side)

RJC Accuracy (TIY T/C only): $\pm 0.25^\circ\text{C}$

Isolation: RIY: 1000VDC input to output to case;

TIY: 500Vrms between input and output terminals

RFI/EMI Protection: RIY: 20V/m when tested to SAMA 33.1 ABC

TIY: 10V/m – ABC $\leq 0.1\%$ of maximum span

Operating and Storage Range: -40°C to $+82^\circ\text{C}$ (-40°F to $+180^\circ\text{F}$)

Ambient Temperature Effect on Accuracy: RIY: $\pm 0.006\%$ of span/ $^\circ\text{C}$ change $\pm 10\text{ppm}$ of ohm reading/ $^\circ\text{C}$; TIY: $\pm 0.01\%$ of span/ $^\circ\text{C}$

Ambient Temperature Effect on RJC (TIY T/C only):

$\pm 0.75^\circ\text{C}/^\circ\text{C}$ change in temperature

For detailed specifications, see the RIY Data Sheet (#3.38) or

TIY Data Sheet (#3.85)

Table 2. RIY & TIY Input Specifications

| Input Type | Range | Accuracy |
|--|---|--|
| RIY Site-Programmable Temperature Transmitter | | |
| PT14 Platinum RTD; 3- and 4-Wire; 100 ohm, $\alpha = 0.00385$ (standard) | -200 to $+850^\circ\text{C}$ (-328 to $+1562^\circ\text{F}$) | $\pm 0.2^\circ\text{C}$ $\pm 0.36^\circ\text{F}$ |
| PT104 Platinum RTD; 3- and 4-Wire; 1000 ohm, $\alpha = 0.00385$ (standard) | -200 to $+630^\circ\text{C}$ (-328 to $+1166^\circ\text{F}$) | $\pm 0.1^\circ\text{C}$ $\pm 0.18^\circ\text{F}$ |
| CU4 Copper RTD; 3- and 4-Wire; 10 ohm, $\alpha = 0.00427$ @ 0°C | -50 to $+250^\circ\text{C}$ (-58 to $+482^\circ\text{F}$) | $\pm 1.6^\circ\text{C}$ $\pm 2.88^\circ\text{F}$ |
| N4 Nickel RTD; 3- and 4-Wire; 120 ohm, $\alpha = 0.00672$ @ 0°C | -80 to $+320^\circ\text{C}$ (-112 to $+608^\circ\text{F}$) | $\pm 0.14^\circ\text{C}$ $\pm 0.25^\circ\text{F}$ |
| TIY Site-Programmable Temperature Transmitter | | |
| TCJU J-Type T/C; Ungrounded (standard) | -50 to $+760^\circ\text{C}$ (-58 to $+1400^\circ\text{F}$) | $\pm 0.25^\circ\text{C}$ $\pm 0.45^\circ\text{F}$ |
| TCKU K-Type T/C; Ungrounded (standard) | -50 to $+1370^\circ\text{C}$ (-58 to $+2498^\circ\text{F}$) | $\pm 0.30^\circ\text{C}$ $\pm 0.54^\circ\text{F}$ |

Sensor Specifications

Number of Lead Wires (RTDs): All temperature assemblies are supplied with 4-wire RTDs that inherently avoid lead wire resistance imbalances caused by wire corrosion and aging.

Lead Wires: Teflon insulated, hermetically sealed

Sheath Material: Stainless steel 316 (other materials available)

Accuracy: RTD: $\pm 0.12\%$ at 0°C (high accuracy RTDs also available); Consult factory for thermocouple tolerances

Pressure: 12,000 psig (-20 to 100°C , -29 to 37°C) for 0.25" dia.

Response Time: RTD, <5 seconds to 63.2% temperature change; Thermocouple, 4.5 sec. for ungrounded, typical; 2.0 sec. for grounded to 63.2% temperature change

Vibration Limit: 10 G over a frequency range of 10–500Hz

Stability: RTD, 0.2°C after 10,000 hrs. at maximum temperature (1 year, 51 days, 16 hours continuous)

Basic TDY Specifications:

Temperature Assemblies Come with Transmitter Model Number:

TDY / PRG / 4-20MA / 10-42DC / [HOUSING CHOICE]

Input: See Table 3

Output: 4-20mA output is accurate to within $\pm 0.03\%$ of input span

Power: 10-42Vdc (loop-powered on output side)

RJC Accuracy (T/C inputs only): $\pm 0.45^\circ\text{C}$

Isolation: 500VAC/1000VDC input to output to case

RFI/EMI Protection: 20V/m @ 20-1000MHz

Operating and Storage Range: Transmitter: -40°C to $+85^\circ\text{C}$

(-40°F to $+185^\circ\text{F}$); Display: -20°C to $+65^\circ\text{C}$ (-4°F to $+149^\circ\text{F}$)

Ambient Temperature Effect on Accuracy: $\pm 0.015\%$ of span per $^\circ\text{C}$ change, maximum ($+0.001\%$ of ohm reading for RTD inputs)

Amb. Temperature Effect on RJC (T/C only): $\pm 0.015^\circ\text{C}/^\circ\text{C}$ change

For detailed specifications, see the TDY Data Sheet (#3.75)

Basic TDZ Specifications:

Temperature Assemblies Come with Transmitter Model Number:

TDZ / PRG / 4-20MA / 12-42DC / [HOUSING CHOICE]

Input: See Table 3

Output: 4-20mA output is accurate to within $\pm 0.015\%$ of input span

Power: 12-42Vdc (loop-powered on output side)

RJC Accuracy (T/C inputs only): $\pm 0.45^\circ\text{C}$

Isolation: 500Vrms input to output

RFI/EMI Protection: 20V/m according to SAMA 33.1 abc

Operating and Storage Range: -40°C to $+85^\circ\text{C}$ (-40°F to $+185^\circ\text{F}$)

Amb. Temperature Effect on Accuracy: 0.003% of span/ $^\circ\text{C}$ change

Ambient Temperature Effect on RJC: $\pm 0.005^\circ\text{C}/^\circ\text{C}$ change from 25°C

For detailed specifications, see the TDZ Data Sheet (#3.76)

Table 3. TDY & TDZ Input Specifications

| Input Type | Range | Accuracy |
|--|--|--|
| TDY PC-Programmable Temperature Transmitters | | |
| PT14 Platinum RTD; 3- and 4-Wire; 100 ohm, $\alpha = 0.00385$ (standard) | -200 to $+850^\circ\text{C}$ (-328 to $+1562^\circ\text{F}$) | $\pm 0.21^\circ\text{C}$ $\pm 0.38^\circ\text{F}$ |
| PT104 Platinum RTD; 3- and 4-Wire; 1000 ohm, $\alpha = 0.00385$ (standard) | -50 to $+500^\circ\text{C}$ (-58 to $+932^\circ\text{F}$) | $\pm 0.21^\circ\text{C}$ $\pm 0.38^\circ\text{F}$ |
| CU4 Copper RTD; 3- and 4-Wire; 10 ohm, $\alpha = 0.00427$ @ 0°C | -50 to $+250^\circ\text{C}$ (-58 to $+482^\circ\text{F}$) | $\pm 1.2^\circ\text{C}$ $\pm 2.16^\circ\text{F}$ |
| N4 Nickel RTD; 3- and 4-Wire; 120 ohm, $\alpha = 0.00672$ @ 0°C | -80 to $+320^\circ\text{C}$ (-112 to $+608^\circ\text{F}$) | $\pm 0.16^\circ\text{C}$ $\pm 0.29^\circ\text{F}$ |
| TCJU J-Type T/C; Ungrounded (standard) | -180 to $+770^\circ\text{C}$ (-292 to $+1418^\circ\text{F}$) | $\pm 0.28^\circ\text{C}$ $\pm 0.5^\circ\text{F}$ |
| TCKU K-Type T/C; Ungrounded (standard) | -150 to $+1372^\circ\text{C}$ (-238 to $+2502^\circ\text{F}$) | $\pm 0.3^\circ\text{C}$ $\pm 0.54^\circ\text{F}$ |
| TDZ Smart HART® Temperature Transmitter | | |
| PT14 Platinum RTD; 3- and 4-Wire; 100 ohm, $\alpha = 0.00385$ (standard) | -200 to $+850^\circ\text{C}$ (-328 to $+1562^\circ\text{F}$) | $\pm 0.1^\circ\text{C}$ $\pm 0.18^\circ\text{F}$ |
| PT104 Platinum RTD; 3- and 4-Wire; 1000 ohm, $\alpha = 0.00385$ (standard) | -200 to $+320^\circ\text{C}$ (-328 to $+608^\circ\text{F}$) | $\pm 0.1^\circ\text{C}$ $\pm 0.18^\circ\text{F}$ |
| N4 Nickel RTD; 3- and 4-Wire; 120 ohm, $\alpha = 0.00618$ @ 0°C | -50 to $+250^\circ\text{C}$ (-58 to $+482^\circ\text{F}$) | $\pm 0.1^\circ\text{C}$ $\pm 0.18^\circ\text{F}$ |
| TCJU J-Type T/C; Ungrounded (standard) | -200 to $+1000^\circ\text{C}$ (-328 to $+1832^\circ\text{F}$) | $\pm 0.25^\circ\text{C}$ $\pm 0.45^\circ\text{F}$ |
| TCKU K-Type T/C; Ungrounded (standard) | -230 to $+1370^\circ\text{C}$ (-382 to $+2498^\circ\text{F}$) | $\pm 0.3^\circ\text{C}$ $\pm 0.54^\circ\text{F}$ |



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