We're Your One Stop Temp Shop

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

- Universal TRY & TRX PC-Programmable and THZ[2] Smart HART® Temperature Transmitters

- 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 and configurations you need most.

- Factory Mutual (FM) approved explosion-proof temperature transmitter and connection head combinations.

- Complete NIST-traceable calibration records available from our state-of-the-art "Calibration Suite".

One Ordering Number

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

Certifications

TRY & TRX PC-Programmable Temperature Transmitters:

FM APPROVED — **Factory Mutual Research Corporation (FMRC) Global Explosion-Proof‡** – [LH2] (M/N only) Class I, Division 1, Groups A,B,C,D; [LH1]**–NEMA 4X, IP66 Non-Incendive** – [HPP] Class I, Div. 2, Groups A,B,C,D **Dust Ignition-Proof‡** – [LH2] Class II and III, Division 1, Groups E,F,G; T6;

CSA — **CSA General (Ordinary) Location Non-Incendive** – [HPP] Class I, Div. 2, Groups A,B,C,D

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

THZ[2] Smart HART Temperature Transmitter:

FM APPROVED — **Factory Mutual Research Corporation (FMRC) Global Explosion-Proof‡** – [HPP in LH2 M/N] Class I, Division 1, Groups A,B,C,D; Class II and III, Division 1, Groups E,F,G; **NEMA 4X, IP66 Non-Incendive** – [HPP]: Class I, Division 2, Groups A,B,C,D; Suitable for: Class II and III, Division 2, Groups F,G; T6@ 60°C Max. Operating Ambient Tempeture

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

Optional Approvals: FMRC, CSA, SAA, NEPSI, and KEMA (CENELEC) Intrinsically-Safe approvals are also available. Consult factory for details.

‡ Factory Mutual certifications apply to the temperature transmitter (TRY, TRX, and THZ[2]) 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".
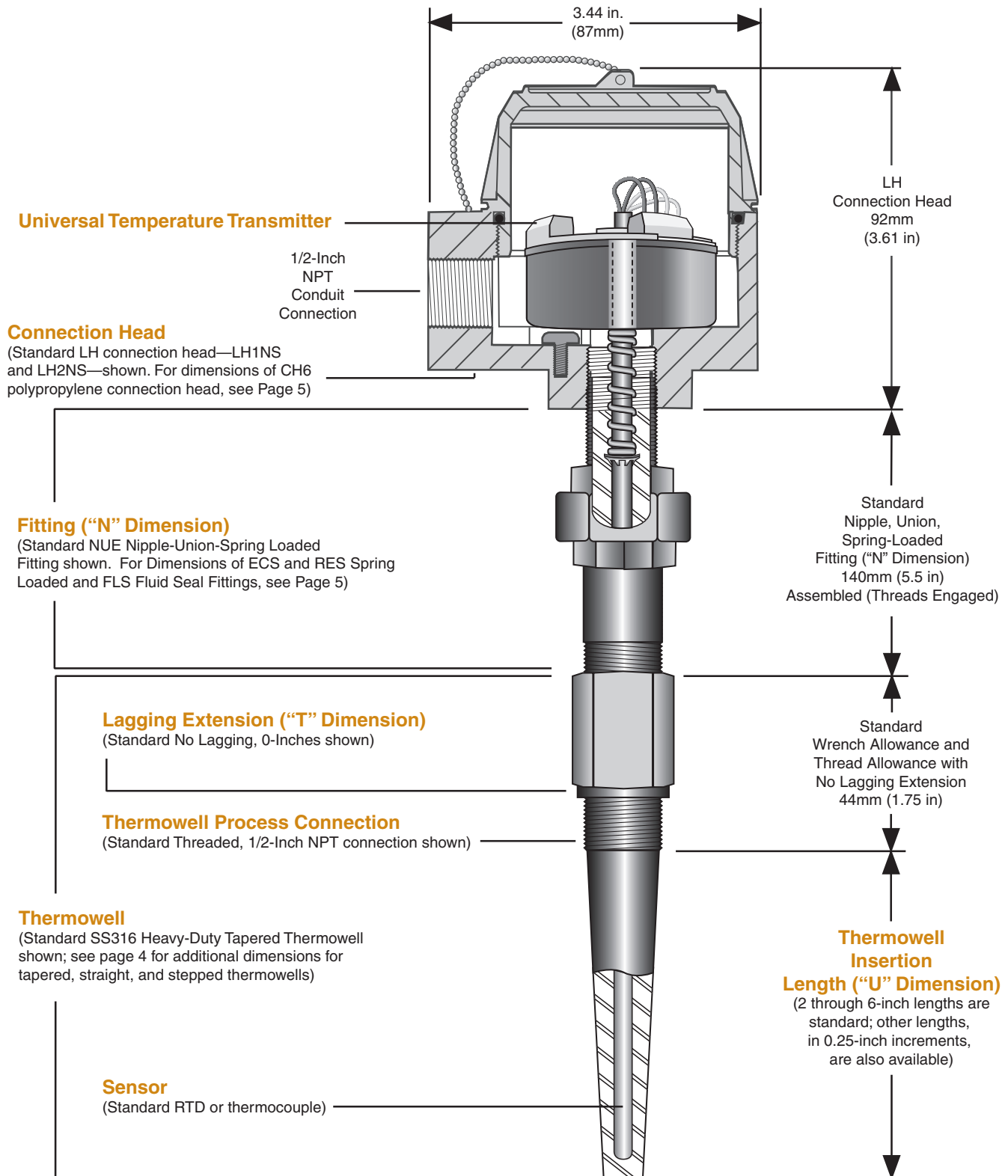

Complete Temperature Assemblies

Selection Guide

Temperature Transmitter Assemblies with Sensors and Thermowells	Pages 2-5
Temperature Transmitter Assemblies with Fixed Immersion Sensors	Pages 6-7
Temperature Transmitter Specifications	Page 8
Sensor Specifications	Page 8

Specifications are subject to change without notice. Printed in the USA. 700-710-109A

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Page 1

Standard Temperature Assemblies with Sensor and Thermowell

3.44 in.
(87mm)

Universal Temperature Transmitter

1/2-Inch
NPT
Conduit
Connection

LH
Connection Head
92mm
(3.61 in)

Connection Head
(Standard LH connection head—LH1NS
and LH2NS—shown. For dimensions of CH6
polypropylene connection head, see Page 5)

Fitting ("N" Dimension)
(Standard NUE Nipple-Union-Spring Loaded
Fitting shown. For Dimensions of ECS and RES Spring
Loaded and FLS Fluid Seal Fittings, see Page 5)

Standard
Nipple, Union,
Spring-Loaded
Fitting ("N" Dimension)
140mm (5.5 in)
Assembled (Threads Engaged)

Lagging Extension ("T" Dimension)
(Standard No Lagging, 0-Inches shown)

Standard
Wrench Allowance and
Thread Allowance with
No Lagging Extension
44mm (1.75 in)

Thermowell Process Connection
(Standard Threaded, 1/2-Inch NPT connection shown)

Thermowell
(Standard SS316 Heavy-Duty Tapered Thermowell
shown; see page 4 for additional dimensions for
tapered, straight, and stepped thermowells)

**Thermowell
Insertion
Length ("U" Dimension)**
(2 through 6-inch lengths are
standard; other lengths,
in 0.25-inch increments,
are also available)

Sensor
(Standard RTD or thermocouple)

Select one from each category to order a Temperature Assembly with Sensor and Thermowell:

Universal Temperature Transmitter (See Page 8, and the TRY/TRX and THZ[2] Data Sheets for Specifications)

TRY	Isolated, PC-Programmable Temperature Transmitter **(standard)**
TRX	Non-Isolated, PC-Programmable Temperature Transmitter **(standard)**
THZ[2]	Isolated, Smart HART® Temperature Transmitter **(standard)**
WEL	6-position Terminal Block: <u>No Transmitter</u> **(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 **(standard)**
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 = 1¼-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 – RES	Spring Loaded Fitting (specify when ordering –VTB option)
26 – FLS	Fluid Seal Fitting

Sensor Type (See Pages 7 & 8 for Specifications)

PT14	Platinum RTD; 3- and 4-Wire; 100 ohm; α=0.00385 **(standard)**
PT104	Platinum RTD; 3- and 4-Wire; 1000 ohm; α=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.

> **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 interface solution experts are ready to help!

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. **–RMLH1NS**. See Page 7 for details.

Connection Head (See Pages 2 and 5 for Dimensions)

LH1NS	Aluminum Body with Valox (357U) Cap, NEMA 4X, IP66
LH2NS	Aluminum Body with Aluminum Cap, Explosion-Proof
CH6	Polypropylene Body and Cap, NEMA 4

TRY / C – P2 / U4 – T0 /S304 / – 26 – NUE – PT14 –VTB [LH1NS] **(Ordering Number Example)**

Specifications are subject to change without notice. Printed in the USA.

Page 3

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.
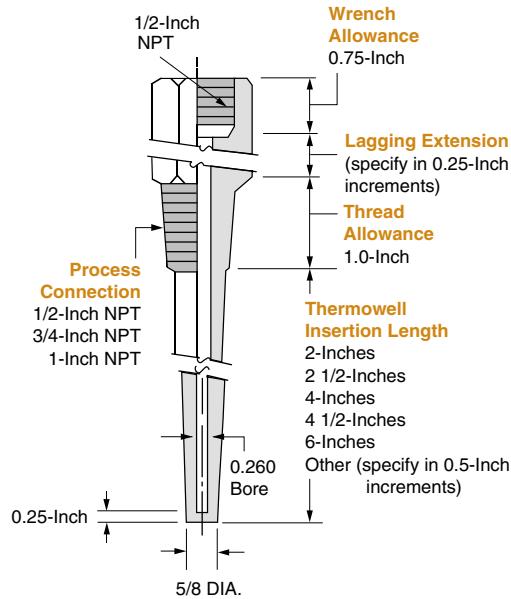
1/2-Inch NPT

Wrench Allowance 0.75-Inch

Lagging Extension (specify in 0.25-Inch increments)

Thread Allowance 1.0-Inch

Process Connection
1/2-Inch NPT
3/4-Inch NPT
1-Inch NPT

Thermowell Insertion Length
2-Inches
2 1/2-Inches
4-Inches
4 1/2-Inches
6-Inches
Other (specify in 0.5-Inch increments)

0.260 Bore

0.25-Inch

5/8 DIA.

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.

1/2-Inch NPT

Wrench Allowance 0.75-Inch

Lagging Extension (specify in 0.25-Inch increments)

Thread Allowance 1.0-Inch

Process Connection
1/2-Inch NPT
3/4-Inch NPT
1-Inch NPT

Thermowell Insertion Length
2-Inches
2 1/2-Inches
4-Inches
4 1/2-Inches
6-Inches
Other (specify in 0.25-Inch increments)

0.260 Bore

0.25-Inch

3/4, 5/8, OR 7/8 DIA.
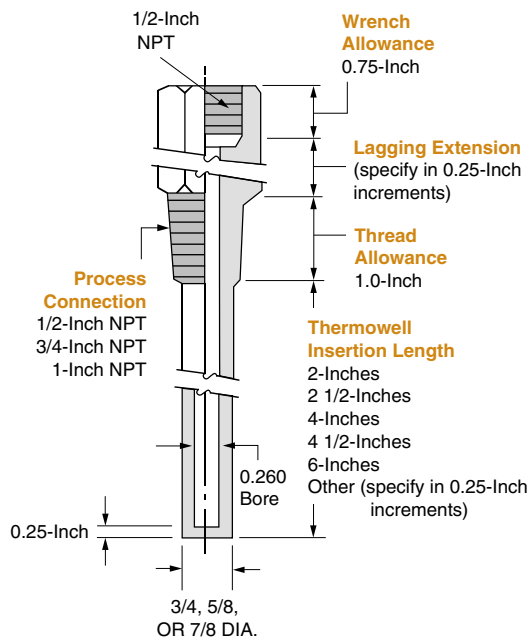
Figure 3. Standard-Duty Threaded, Stepped Thermowells (Standard), also convenient to install and replace, deliver a faster response time than tapered or straight wells, but less stength and capability to withstand high force and high velocity from the process fluid flow. They are easy to weld or braze for applications which require sealing.
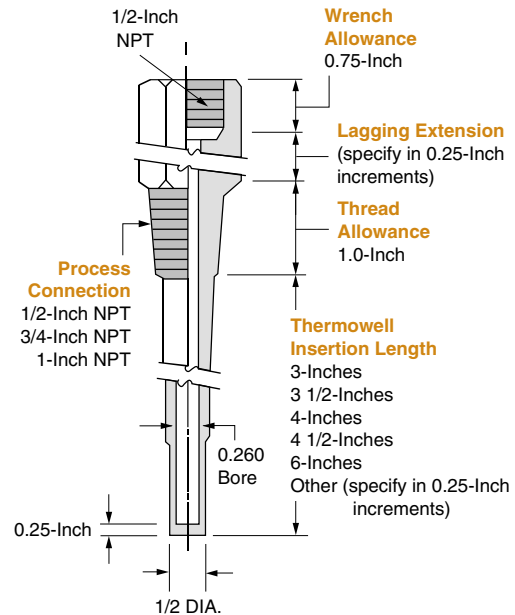
1/2-Inch NPT

Wrench Allowance 0.75-Inch

Lagging Extension (specify in 0.25-Inch increments)

Thread Allowance 1.0-Inch

Process Connection
1/2-Inch NPT
3/4-Inch NPT
1-Inch NPT

Thermowell Insertion Length
3-Inches
3 1/2-Inches
4-Inches
4 1/2-Inches
6-Inches
Other (specify in 0.25-Inch increments)

0.260 Bore

0.25-Inch

1/2 DIA.

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.
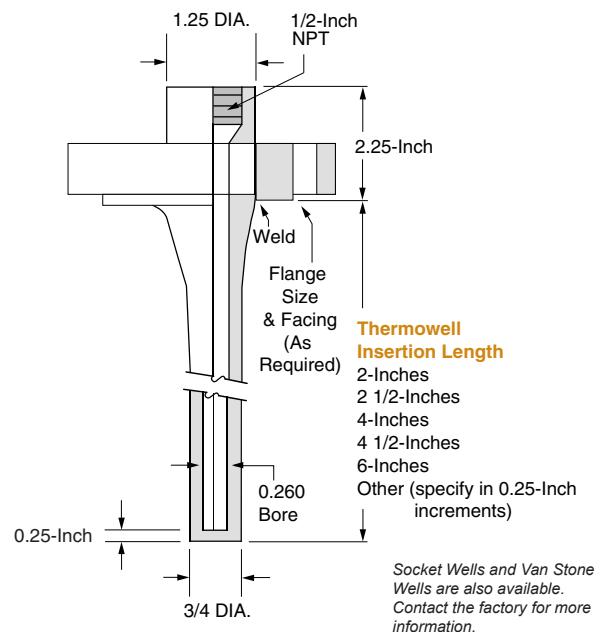
1.25 DIA.

1/2-Inch NPT

2.25-Inch

Weld

Flange Size & Facing (As Required)

Thermowell Insertion Length
2-Inches
2 1/2-Inches
4-Inches
4 1/2-Inches
6-Inches
Other (specify in 0.25-Inch increments)

0.260 Bore

0.25-Inch

3/4 DIA.

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

Figure 5. Dimensions for CH6 Polypropylene, NEMA 4 Connection Head.

3/4 in. NPT Hub

3.66 in. (93mm)

2.05 in. (52mm)

1/2 in. NPT Thread

2.63 in. (67mm)

4.30 in. (109mm)
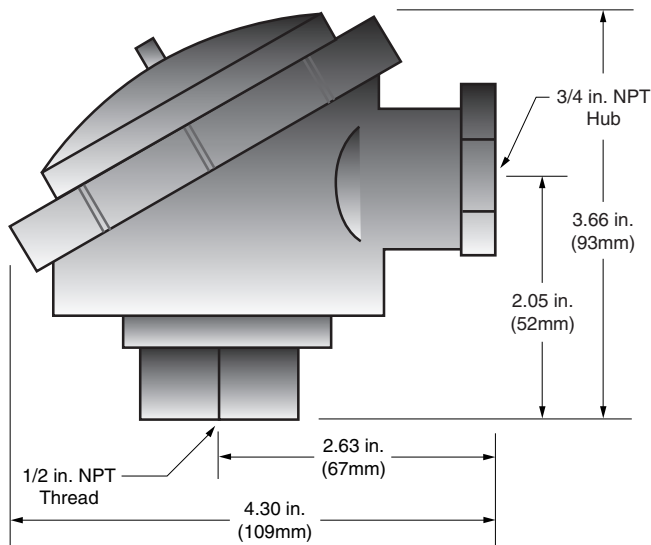
Table 1. Process Connection Flange Sizes.

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.

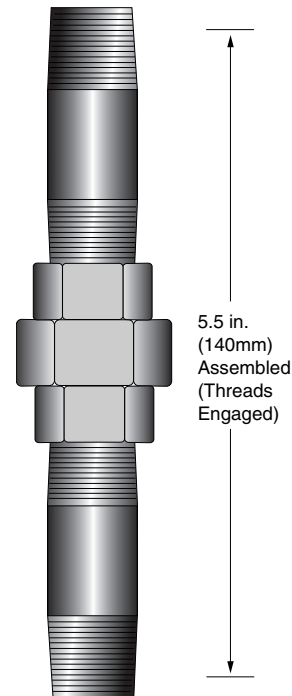

5.5 in. (140mm) Assembled (Threads Engaged)

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).
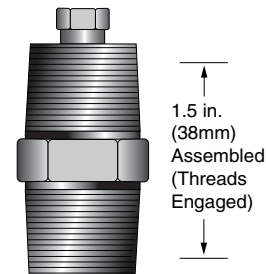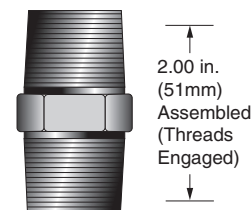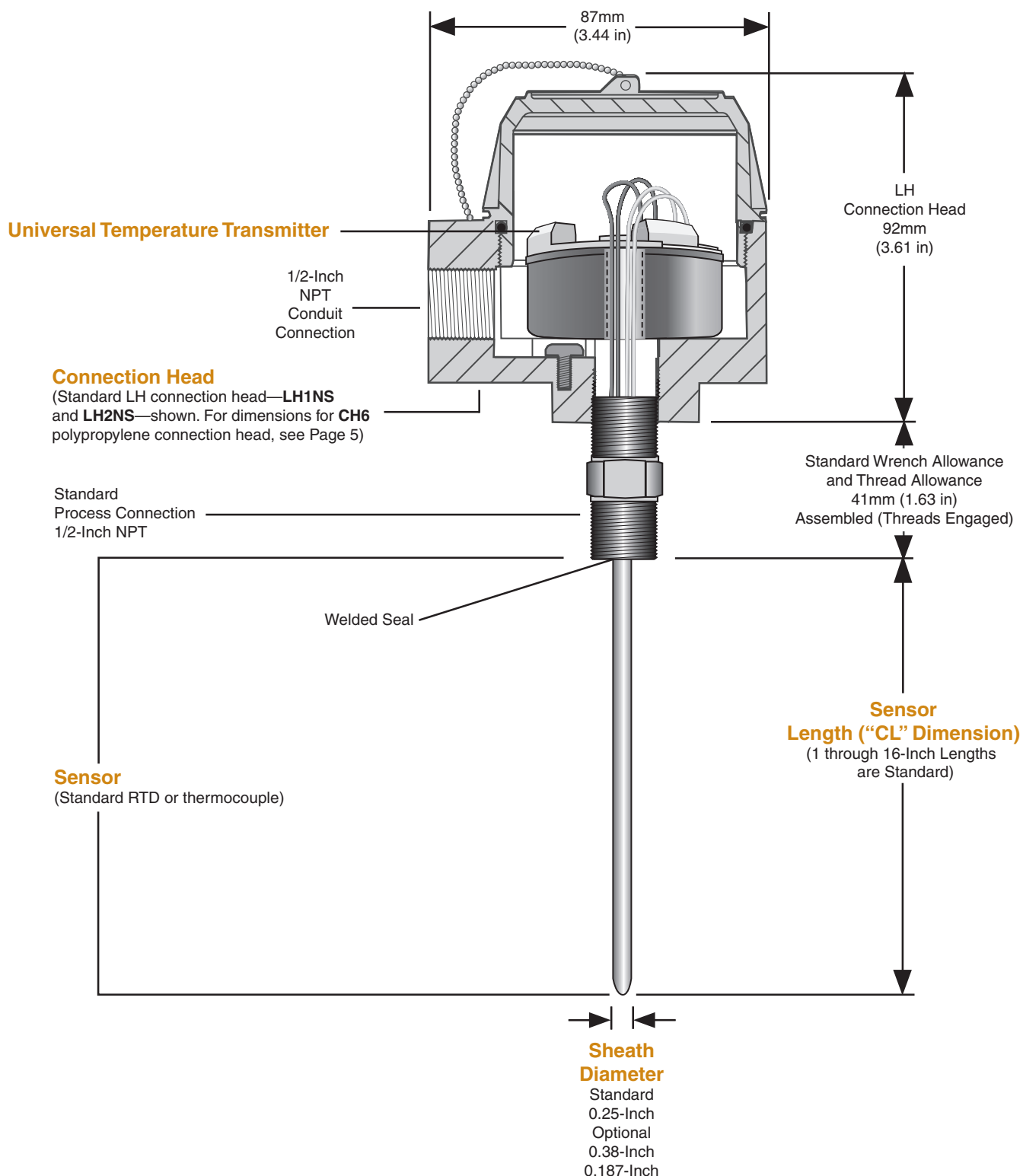

1.5 in. (38mm) Assembled (Threads Engaged)

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

2.00 in. (51mm) Assembled (Threads Engaged)

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Page 5

RTI 1
Ready-to-Install TRY, TRX & THZ[2]
Temperature Transmitter Assemblies

Standard Temperature Assemblies **with Fixed Immersion Sensor**

87mm
(3.44 in)

LH
Connection Head
92mm
(3.61 in)

Universal Temperature Transmitter

1/2-Inch
NPT
Conduit
Connection

Connection Head
(Standard LH connection head—**LH1NS**
and **LH2NS**—shown. For dimensions for **CH6**
polypropylene connection head, see Page 5)

Standard Wrench Allowance
and Thread Allowance
41mm (1.63 in)
Assembled (Threads Engaged)

Standard
Process Connection
1/2-Inch NPT

Welded Seal

**Sensor
Length ("CL" Dimension)**
(1 through 16-Inch Lengths
are Standard)

Sensor
(Standard RTD or thermocouple)

**Sheath
Diameter**
Standard
0.25-Inch
Optional
0.38-Inch
0.187-Inch

Select one from each category to order a **Temperature Assembly with Fixed Immersion Sensor:**

Universal Temperature Transmitter (See Page 8 and TRY/TRX and THZ[2] Data Sheets for Specifications)

TRY Isolated, PC-Programmable Temperature Transmitter **(standard)**
TRX Non-Isolated, PC-Programmable Temperature Transmitter **(standard)**
THZ[2] Smart HART® Temperature 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 Page 8 for Specifications)

PT1C4 Platinum RTD; for 3- and 4-Wire; 100 ohm; α=0.00385 **(standard)**
PT10C4 Platinum RTD; for 3- and 4-Wire; 1000 ohm ; α=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
Note: Other RTD types and grounded T/Cs are also available consult the factory for details.

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 termina block, i.e. **–RMLH1NS**. See Remote-Mounted Terminal Block below for details.

Connection Head (See Pages 5 and 6 for Dimensions)

LH1NS Aluminum Body with Valox (357U) Cap, NEMA 4X, IP66 locations **(standard)**
LH2NS Aluminum Body with Aluminum Cap, Explosion-Proof locations **(standard)**
CH6 Polypropylene Body and Cap, NEMA 4 **(standard)**

> **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!

THZ2 / CL6 / D25 / S316 / -TCCJU –VTB [LH2NS] **(Ordering Number Example)**

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 your transmitter in an easily accessible area with our *Remote Terminal Block* option. Add the **–RM?** option to your temperature assembly and receive two housings: a transmitter in the specified connection head, and a terminal block enclosed in an additional connection head with your selected sensor and fittings attached. Sensor extension wiring (not included) connects the terminal block to the transmitter.
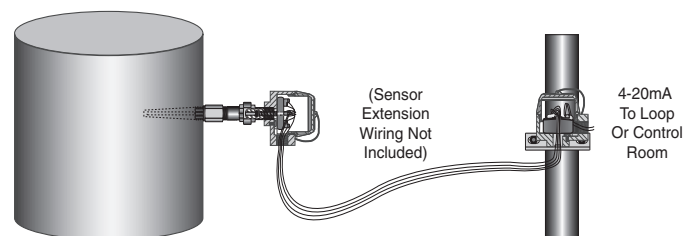
Temperature Transmitter Specifications

TRY & TRX PC-Programmable

Temperature Transmitters

In one minute, from one software window, you can configure our TRY (isolated) and TRX (non-isolated) 2-wire (loop-powered) transmitters to handle nearly every temperature application in your plant. Everything you need for set up (Intelligent Configuration Software and RS-232 cable) are supplied **FREE** with your order.

Programmable parameters include: Input type and range; output range; output damping; sensor trim offset; RJC or no RJC; linearization or no linearization; temperature readout in °C or °F; and upscale or downscale drive on sensor burnout

Basic TRY & TRX Specifications:
Temperature Assemblies Come with Transmitter Model Number:
TRY / PRG / 4-20MA / 10-42DC / [HOUSING CHOICE]
TRX / PRG / 4-20MA / 8-42DC / [HOUSING CHOICE]
Input: See Table 2
Output: 4-20mA output is accurate to within ±0.03% of input span
Power: TRY: 10-42Vdc (loop-powered on output side)
TRX: 8-42Vdc (loop-powered on output side)
RJC Accuracy (T/C inputs only): ±0.45°C
Linearity: 0.1% of span, within rated ranges
Isolation (TRY Only): 1500Vrms input to output to case
RFI/EMI Protection: 20V/m @20-1000MHz
Operating and Storage Range: –40°C to +85°C (–40°F to +185°F)
Ambient Temperature Effect on Accuracy: ±0.015% of span per °C change, maximum (+0.001% of ohm reading for RTD inputs
Ambient Temperature Effect on RJC (T/C only): ±0.015°C/°C change

For detailed specifications, see the TRY/TRX Data Sheet

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: ±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)

THZ[2] Smart HART® Temperature Transmitter

The THZ[2] programs over the 4-20mA wire pair from anywhere on the loop using a standard hand held HART Communicator or our Intelligent Configuration Software (HART to RS-232 Smart Interface cable required).

Programmable parameters include: Input type and range; output range; output damping; sensor trim offset; temperature readout in °C or °F; and upscale or downscale drive on sensor burnout

Basic THZ[2] Specifications:
Temperature Assemblies Come with Transmitter Model Number:
THZ[2] / PRG / 4-20MA / 12-42DC / [HOUSING CHOICE]
Input: See Table 2
Output: 4-20mA output is accurate to within ±0.015% of input span
Power: 12-42Vdc (loop-powered on output side)
RJC Accuracy (T/C inputs only): ±0.45°C
Isolation: 500Vrms input to output continuous
RFI/EMI Protection: 10V/m @80-1000MHz
Operating and Storage Range: –40°C to +85°C (–40°F to +185°F)
Ambient Temperature Effect on Accuracy: 0.01% of span per °C change, maximum; 0.003% of span per °C change typical
Ambient Temperature Effect on RJC: ±0.005°C/°C change of ambient temperature

For detailed specifications, see the THZ[2] Data Sheet

Table 2. TRY, TRX, & THZ[2] Input Specifications

Input Type	Range	Accuracy
TRY & TRX PC-Programmable Temperature Transmitters		
PT14 Platinum RTD; 3- and 4-Wire; 100 ohm, α = 0.00385 (standard)	–200 to +850°C (–328 to +1562°F)	±0.21°C ±0.38°F
PT104 Platinum RTD; 3- and 4-Wire; 1000 ohm, α = 0.00385 (standard)	–50 to +500°C (–58 to +932°F)	±0.21°C ±0.38°F
CU4 Copper RTD; 3- and 4-Wire; 10 ohm, α = 0.00427 @ 0°C	–50 to +250°C (–58 to +482°F)	±1.2°C ±2.16°F
N4 Nickel RTD; 3- and 4-Wire; 120 ohm, α = 0.00672 @ 0°C	–80 to +320°C (–112 to +608°F)	±0.16°C ±0.29°F
TCJU J-Type T/C; Ungrounded (standard)	–180 to +770°C (–292 to +1418°F)	±0.28°C ±0.5°F
TCKU K-Type T/C; Ungrounded (standard)	–150 to +1372°C (–238 to +2502°F)	±0.3°C ±0.54°F
THZ[2] Smart HART® Temperature Transmitter		
PT14 Platinum RTD; 3- and 4-Wire; 100 ohm, α = 0.00385 (standard)	–200 to +850°C (–328 to +1562°F)	±0.1°C ±0.18°F
PT104 Platinum RTD; 3- and 4-Wire; 1000 ohm, α = 0.00385 (standard)	–200 to +320°C (–328 to +608°F)	±0.1°C ±0.18°F
N4 Nickel RTD; 3- and 4-Wire; 120 ohm, α = 0.00618 @ 0°C	–50 to +250°C (–58 to +482°F)	±0.1°C ±0.18°F
TCJU J-Type T/C; Ungrounded (standard)	–200 to +1000°C (–328 to +1832°F)	±0.25°C ±0.45°F
TCKU K-Type T/C; Ungrounded (standard)	–230 to +1370°C (–382 to +2498°F)	±0.3°C ±0.54°F

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United States • info@miinet.com
Tel: (818) 894-7111 • FAX: (818) 891-2816
Australia • sales@mooreind.com.au
Tel: (02) 8536-7200 • FAX: (02) 9525-7296

Belgium • info@mooreind.be
Tel: 03/448.10.18 • FAX: 03/440.17.97
The Netherlands • sales@mooreind.nl
Tel: (0)344-617971 • FAX: (0)344-615920

China • sales@mooreind.sh.cn
Tel: 86-21-62491499 • FAX: 86-21-62490635
United Kingdom • sales@mooreind.com
Tel: 01293 514488 • FAX: 01293 536852

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