Технические характеристики на комплект для монтажа передатчиков TRY, TRX, THZ & STZ Moore Industries RTI-1

По вопросам продаж и поддержки обращайтесь:

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RTI-1 Ready-to-Install TRY, TRX, THZ³ & STZ Temperature Transmitter Assemblies

Your One Stop Temp Shop for Complete Temperature Assemblies

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, THZ³ Smart HART[®] and STZ Functional Safety Temperature Transmitters.
- General location, hazardous area, and explosion-proof/flameproof connection heads.
- STZ was designed and built according to IEC 61508 requirements and is exida approved SIL 3 capable for use in Safety Instrumented Systems.
- 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.
- Remarkable accuracy of up to ±0.014°C (±0.025°F) using a THZ³ or STZ and our Calibration Suite.
- 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.



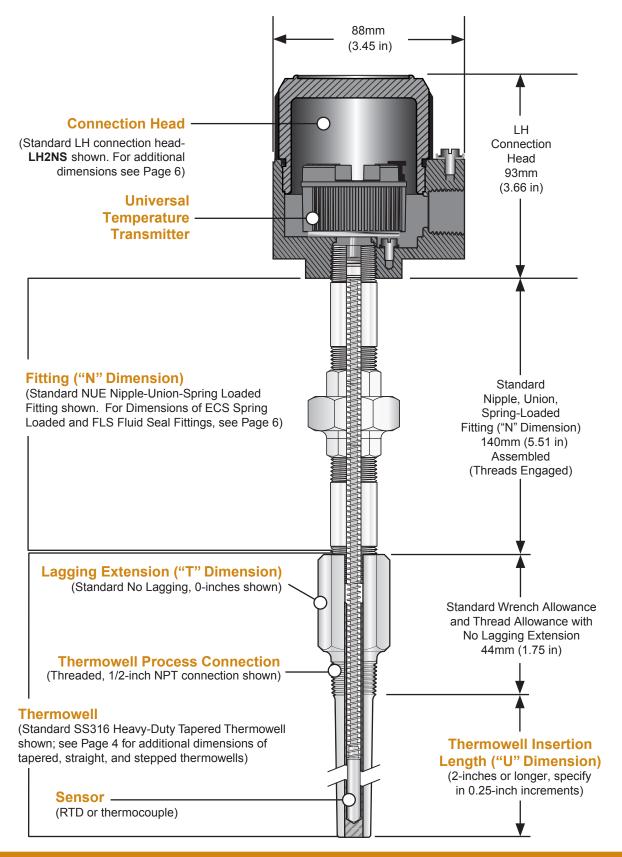
Type "n" and Functional Safety IEC 61508 are available. Consultate individual temperature transmitter data sheets for specific information for each certifying agency.

NOTE: Certifications apply to the temperature transmitter and connection head combination. Sensor and sensor assembly components are not included in FM, CSA and IECEx certifications. Complete temperature transmitter assemblies including sensors are available with ATEX and ANZEx certifications.

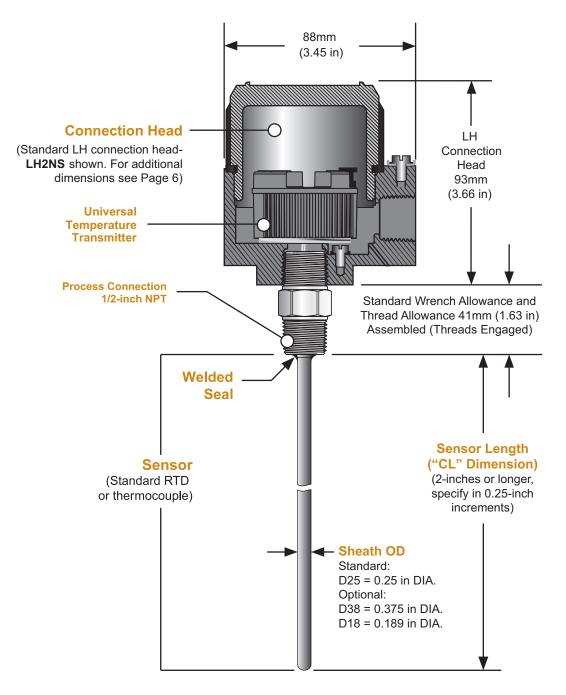


Temperature Transmitter Assemblies with Sensors and Thermowells	Pages 2-3
Thermowell Types and Fitting Selection	Pages 4-6
Temperature Transmitter Specifications	Page 7
Sensor Specifications	Page 7

Standard Temperature Assemblies with Sensor and Thermowell



Standard Temperature Assemblies with Fixed Immersion Sensor



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.

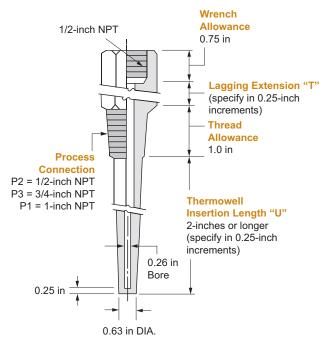


Figure 2. Standard-Duty Threaded, Stepped Thermowells

(Standard), 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.

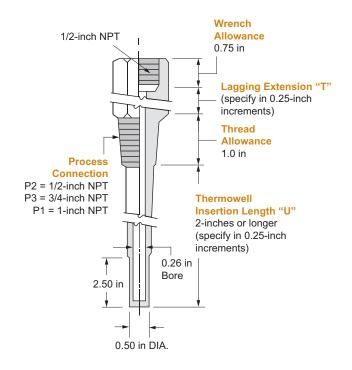
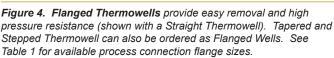


Figure 3. Standard-Duty Threaded, Straight Thermowells (Standard), convenient to install and replace, will withstand a high force and high velocity factor from the process fluid flow, but less than that of the heavy duty well because of lower natural frequency. They are easy to weld or braze for applications which require sealing.



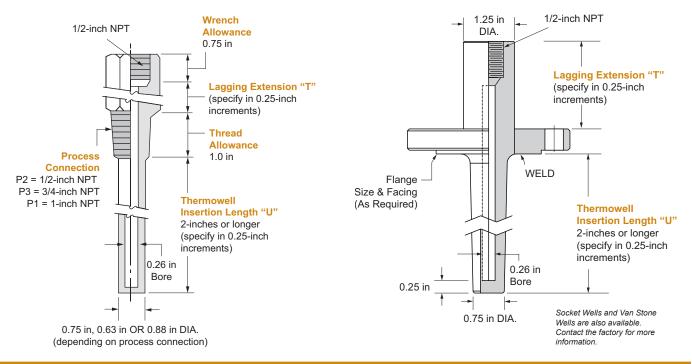


Figure 5. PTB-P2, P1, P3 Heavy Duty Protection Tube - for heavy wall construction applications.

Figure 6. PTB-P2C, P1C, P3C WORM Sensor Protection Tube - for use in light duty applications with standing liquid or slow-moving gas.

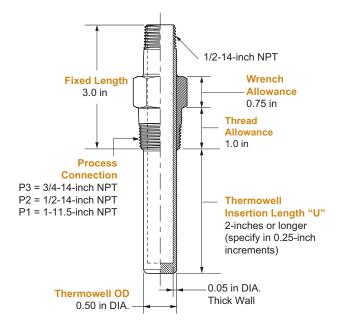


Figure 7. SW1, SW2 and SW3 Heavy Duty Tapered Stem - for weld in socket-welding fitting.

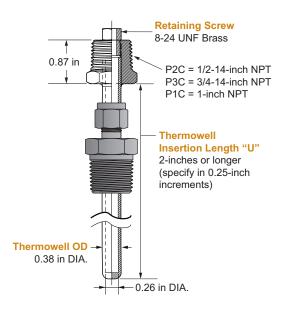
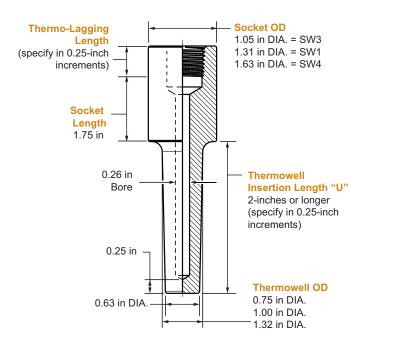


Figure 8. Sanitary Wells - Cap sizes D75 through D4; SS316 low carbon material with a high polish.



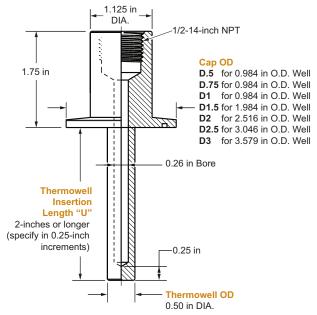


Figure 9. Dimensions for LH2 Explosion-proof/Flameproof Connection Head.

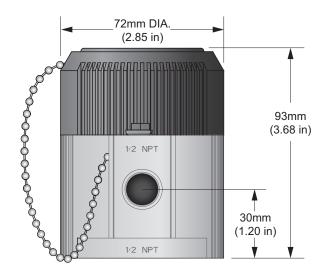


Table 1. Process Connection Flange Sizes.

Ordering	Flange
Code	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 10. NUE, NUN and NUR Nipple, Union, Spring-Loaded Fitting (Standard) - Combination fitting is used with the WORM sensor. It uses a union to allow easy assembly of the entire system. It can be adjusted as many times as required.

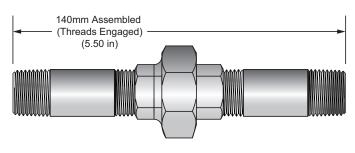
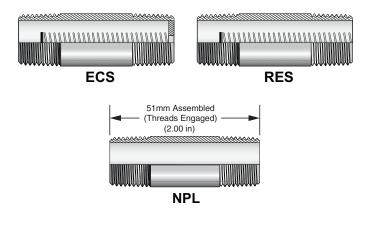


Figure 11. FLS Fluid Seal Fitting and OS Spring-Loaded Oil Seal are used for transmitter assemblies with thermowells and assemblies with fixed immersion sensors (it is not used with WORM sensors). It prevents fluid leak along the sensor sheath so it's ideal for using temperature sensitive paste or heat transfer fluid in the thermowell. It can also be used in air ducts and other applications. Although the FLS provides adjustment precision, it crimps the sensor sheath, and can therefore be adjusted only once (up to 0.50 in).



Figure 12. ECS and RES Spring-Loaded Fittings and NPL Nipple assure a good thermal connection between the sensor and thermowell offering a quick response time. This fitting is not used with the WORM sensors. For the WORM, use the **NPL** fitting.



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. The Intelligent PC Configuration Software that you need for set up is 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) TRX: 8-42Vdc (loop-powered) 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/°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

Lead Wires:

Standard WORM (WS) Sensors: Teflon insulated, hermetically sealed for measurements up to $232^{\circ}C$ ($450^{\circ}F$)

High Temperature WORM (WH) Sensors: Braided fiberglass for measurements ranging from 232°C (450°F) up to 427°C (800°F). Inconel (INC) sheathed WORM sensors: Special fiberglass insulation withstands temperatures up to 1,093°C (2,000°F)

Wire Size: Wire gauges range from 20 to 28 depending on the element type.

Accuracy: RTD: $\pm 0.12\%$ at 0°C. Consult the factory for thermocouple tolerances.

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

Response Time (typical to reach a 63.2% temperature change): RTD: <5 seconds; Grounded Thermocouples 2.0 sec.; ungrounded Thermocouples 4.5 sec.

Vibration Options:

10G: Provides protection for sensors that are exposed to higher than normal vibration levels.

30G: Sensor is encapsulated in a waterproof epoxy to endure extreme vibration levels and full water immersion.

Spring: 302 Stainless Steel. Withstands continuous temperatures up to 1093°C (2000°F).

THZ³ Smart HART[®] Temperature Transmitter

HART configurable via any HART handheld configurator or HART compatible host. Additionally program or monitor with any FDT compliant host or program, such as PACTware, utilizing our DTM.

STZ Functional Safety Dual Input Smart HART[®] Temperature Transmitter

Designed and built from the ground up in accordance with IEC 61508 requirements. It is exida approved and certified SIL 3 capable for use in a Safety Instrumented System.

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 THZ³ and STZ Specifications:

Temperature Assemblies Come with Transmitter Model Number: THZ³ / TPRG / 4-20MA / 12-42DC / [HOUSING CHOICE] STZ / 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) RJC Accuracy (T/C inputs only): ±0.25°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)

For detailed specifications, see the THZ³ and STZ Data Sheets

Table 2. TRY, TRX, THZ³ and STZ Input Specifications

Input Type	Range	Accuracy
TRY & TRX PC-Programmabl	e Temperature Trans	smitters
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)	–200 to +850°C (–328 to +1562°F)	±0.21°C ±0.38°F
CU4 Copper RTD; 3- and 4-Wire; 10 ohm, $\alpha = 0.00427$	–50 to +250°C (–58 to +482°F)	±1.2°C ±2.16°F
N1204 Nickel RTD; 3- and 4-Wire; 120 ohm, $\alpha = 0.00672$	−80 to +320°C (−112 to +608°F)	±0.16°C ±0.29°F
TCJ J-Type T/C	–180 to +770°C (–292 to +1418°F)	±0.28°C ±0.5°F
ТСК К-Туре Т/С	–150 to +1372°C (–238 to +2502°F)	±0.3°C ±0.54°F

THZ³ Smart HART[®] & STZ Functional Safety Dual Input Temperature Transmitters

–200 to +850°C	±0.1°C
(–328 to +1562°F)	±0.18°F
–200 to +850°C	±0.1°C
(–328 to +1562°F)	±0.18°F
-80 to +320°C	±0.1°C
(-112 to +608°F)	±0.18°F
–50 to +250°C	±0.85 °C
(–58 to +482°F)	±1.53°F
–180 to +760°C	±0.25°C
(–292 to +1400°F)	±0.45°F
–150 to +1370°C	±0.3°C
(–238 to +2498°F)	±0.54°F
	(-328 to +1562°F) -200 to +850°C (-328 to +1562°F) -80 to +320°C (-112 to +608°F) -50 to +250°C (-58 to +482°F) -180 to +760°C (-292 to +1400°F) -150 to +1370°C

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

Universal Temperature Transmitter (See Page 7, and the TRY/TRX, THZ³ and STZ Data Sheets for Specifications)

- THZ³ Isolated, Dual Input Smart HART® Temperature Transmitter (Standard)
- STZ Isolated, Functional Safety Dual Input Smart HART® Temperature Transmitter (Standard)
- TRX Non-Isolated, PC-Programmable Temperature Transmitter (Standard)
- **TRY** Isolated, PC-Programmable Temperature Transmitter (Standard)

WEL 6-Position Terminal Block: <u>No Transmitter</u> (Standard)

Thermowell Type (See Pages 4 and 5 for Descriptions and Dimensions)

- A Heavy-Duty Threaded, Tapered Well
- B Standard-Duty Threaded, Straight Well
- C Standard-Duty Threaded, Stepped Well

PTB Protection Well and Tube (Available in SS316)

- -Heavy Duty Protection Tube Select (-P2, -P3, -P1) Process Threads
- -Light Duty Protection Well Select (-P2C, -P3C, -P1C) No Process Thread

Thermowell Process Connection Size (See Page 6)

- P2 Threaded, ¹/₂-inch NPT (A, B, C Well)
- P3 Threaded, ³/₄-inch NPT (A, B, C Well)
- P1 Threaded, 1-inch NPT (Well)
- F? Flanged Well, Replace "?" with Ordering Code from Table 1 on Page 6
- **SW?** Welded, Replace "?" with Size: SW1 = 1-inch, SW2 = ½-inch, SW3 = ¾-inch, SW4 = 1¼-inch
- S-D? Sanitary Well, Replace "?" with Cap Diameter, (D.5 = 0.984-inch, D.75 = 0.984-inch, D1 = 1.984-inch, D1.5 = 1.984-inch, D2 = 2.516-inch, D2.5 = 3.047-inch, D3 = 3.579-inch)
- P2C Threaded, 0.5-inch NPT with Straight Stem = 0.375-inch O.D. Protection Tube (Cold Side Only and Light Duty, No Process Threads)
- P3C Threaded, 0.75-inch NPT with Straight Stem = 0.375-inch O.D. Protection Tube (Cold Side Only and Light Duty, No Process Threads)
- P1C Threaded, 1-inch NPT with Straight Stem = 0.375-inch O.D. Protection Tube (Cold Side Only and Light Duty, No Process Threads)

Thermowell Insertion Length ("U" Dimension) (See Pages 4 and 5)

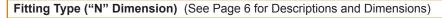
U? Replace "?" with any Insertion Length in 0.25-inch Increments (2-inches or longer, specify in 0.25-inch increments)

Lagging Extension Length ("T" Dimension) (See Pages 4 and 5)

- T0 No Lagging, 0-inches (Standard)
- T? Replace "?" with Length in 0.25-inch Increments

Thermowell Material

- S304 (Standard)
- S316 SS316 (Standard; PTB in S316)
- CS Carbon Steel
- BR Brass
- S310 Stainless Steel 310 for Thermowell Temperatures of 1093°C (2000°F)
- S446 Stainless Steel 446 for Thermowell Temperatures of 1093°C (2000°F)
- INC Inconel 600
- (Other Materials Available Consult Factory)



- 26 NUN Nipple-Union, Nipple
- 26 NPL 1/2-inch Nipple, 2.5-inches long
- 26 NPL3 1/2-inch Nipple, 3-inches long



Don't See What You Need?

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

······································	· ··· · · · · · · · · · · · · · · · ·
Sensor Type (See Page 7 for Specifications)	
 WSPT14 Standard Temperature, Pt 385 RTD; 4-Wire; 100 ohm (4 WS2PT14 Standard Temperature Pt 385 RTD; 4-Wire; 100 ohm (D WSPT104 Standard Temperature, Pt 385 RTD; 4-Wire; 100 ohm (D WHPT14 High Temperature, Pt 385 RTD; 4-Wire; 100 ohm (B00°F WH2PT13 High Temperature Pt 385 RTD; 3-Wire; 100 ohm (Dual S WHPT104 High Temperature WORM, Pt 385 RTD; 4-Wire; 100 ohm (Dual S WHPT104 Nickel RTD; 4-Wire; 120 ohm (450°F maximum) WSCU4 Copper RTD; 4-Wire; 10 ohm (450°F maximum) WSCU4 Standard Temperature, Replace "?" with J, K, T or E T/C WS2TC?U Standard Temperature, Replace "?" with J, K, T or E T/C WS2TC?U Standard Temperature, Replace "?" with J, K, T or E T/C, Grd WHTC?G High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd WH2TC?U High Temperature, Replace "?" with J, K, T or E T/C, Grd 	ual Sensor, 450°F maximum) 450°F maximum) maximum) sensor, 800°F maximum) m, 800°F maximum) s, Grounded (450°F maximum) s, Grounded (Dual Sensor, 450°F maximum) s, Ungrounded (Dual Sensor, 450°F maximum) t, Ungrounded (Dual Sensor, 450°F maximum) sounded bunded bunded grounded (Dual Sensor) grounded (Dual Sensor)
Options (See Page 7 for Descriptions)	
-VTD Standard Factory Calibration with NIST Test Data -SSB?-BOOT Replace "?" with SS Braid Length (in 1-inch Incr -FLEX?-BOOT Replace "?" with Flexible Armored Cable Length -SNPT-FLEX? 1/2-inch Fitting Attached to FLEX Armor Cable a -GRIP 1/2-inch Fitting Attached to FLEX Armor Cable a -GRIP 1/2-inch NPT Cord Grip to Hold Sensor Lead Wire -WW Wire Wound Option for Temperatures Below -10 -ETR Extended Temperature Required Above +800°F -RM?** Remote-Mounted (-TB6); Replace "?" with Conr -TB6 6-Position Terminal Block (Mounted in Enclosur	rements), 12-inch minimum (Specify Only with RM? If Required) and in 12-inch Increments)* (Specify Only with RM? If Required) and Threads into Well, Replace "?" With FLEX Armor Length in Inches. ires into Enclosure es, Replace "?" with Lead Wire Length (in 0.25-In. Increments)* PF (For RTDs Only) to 1000°F (RTDs only) hection Head Type for the Terminal Block, i.eRMLH1NS ansmitter is Selected) e, Specify When No Transmitter) hy be Ordered with LH2* Connection Head or with STZ and for Dimensions) p, NEMA 4X, IP66 (Not available with STZ) Explosion-Proof/Flameproof 4 with Integral Terminal Block EMA 4; used with TRansmitter EMA 4; used with TB6, Terminal Block or Assembly Only) ting or Connection Head)
	IMPORTANT NOTE Specify Standard Temperature WS* WORM sensors for measurements
	up to 232°C (450°F) Specify High Temperature WHPT* WORM sensors for measurements up to 427°C (800°F).
See Previous Page for detailed information	Specify High Temperature WHTC* WORM Sensors for measurements up to 760°C (1400°F). For temperatures up to 1093°C (2000°F), specify WHTCKG or WHTCKU with a CL2 Sheath Length and Inconel Material.
TRY/C-P2/U4-T0/S304/-26-NUN - WSPT1406 [LH1	NS] (Ordering Number Example)

Select one from each category to order a Temperature Assembly with Straight Sensor And Thermowell: Universal Temperature Transmitter (See Page 7, and the TRY/TRX, THZ³ and STZ Data Sheets for Specifications) THZ³ Isolated, Dual Input Smart HART® Temperature Transmitter (Standard) STZ Isolated, Functional Safety Dual Input Smart HART® Temperature Transmitter (Standard) TRX Non-Isolated, PC-Programmable Temperature Transmitter (Standard) TRY Isolated, PC-Programmable Temperature Transmitter (Standard) WEL 6-Position Terminal Block: No Transmitter (Standard) Thermowell Type (See Pages 4 and 5 for Descriptions and Dimensions) Heavy-Duty Threaded, Tapered Well Δ Standard-Duty Threaded, Straight Well В С Standard-Duty Threaded, Stepped Well Thermowell Process Connection Size (See Page 6) **P**2 Threaded, 1/2-inch NPT **P3** Threaded, 3/4-inch NPT **P1** Threaded, 1-inch NPT Flanged Well, Replace "?" with Ordering Code from Table 1 on Page 6 F? SW? Welded, Replace "?" with size: SW1 = 1-inch, SW2 = 1/2-inch, SW3 = 3/4-inch, SW4 = 11/4-inch S-D? Sanitary Well, Replace "?" with Cap Diameter, (D.5 = 0.984-inch, D.75 = 0.984-inch, D1 = 1.984-inch, D1.5 = 1.984-inch, D2 = 2.516-inch, D2.5 = 3.047-inch, D3 = 3.579-inch) Thermowell Insertion Length ("U" Dimension) (See Pages 4 and 5) Replace "?" with any Insertion Length in 0.25-inch Increments (2-inches or longer, specify in 0.25-inch increments) U? Lagging Extension Length ("T" Dimension) (See Pages 4 and 5) No Lagging, 0-inches (Standard) T0 Т? Replace "?" with Length in 0.25-inch Increments **Thermowell Material** S304 SS304 (Standard) S316 SS316 (Standard) CS Carbon Steel BR Brass S310 Stainless Steel 310 for Thermowell Temperatures of 1093°C (2000°F) S446 Stainless Steel 446 for Thermowell Temperatures of 1093°C (2000°F) INC Inconel 600 (Other Materials Available - Consult Factory) Fitting Type ("N" Dimension) (See Page 9 for Descriptions and Dimensions) 26 - NUE Nipple-Union Spring-Loaded Fitting (Standard) 26 - NUR Nipple, Union, Removable Spring-Loaded Fitting (Specify -VTB option) 26 - ECS Spring Loaded Fitting 26 – RES Spring Loaded Fitting (Specify when ordering -VTB option) 26 – FLS Fluid Seal Fitting 26 – OS Spring-Loaded Oil Seal Sensor Type (See Page 7 for Specifications) **Don't See What** - PT14 Platinum 385 RTD; 3- and 4-Wire; 100 ohm You Need? - PT104 Platinum 385 RTD; 3- and 4-Wire; 1000 ohm This bulletin features just - CU4 Copper RTD; 3- and 4-Wire; 10 ohm a sample of the wide range - N1204 Nickel RTD; 3- and 4-Wire; 120 ohm of temperature assembly - 2PT14 Dual Element Pt 385 RTD; 3- and 4-Wire; 100 ohm choices we offer. Whatever - 2PT104 Dual Element Pt 385 RTD; 3- and 4-Wire; 1000 ohm your temperature assembly - TCJG J-Type Thermocouple; Grounded needs are, our temperature - TCJU J-Type Thermocouple; Ungrounded interface solution experts are - TCKG K-Type Thermocouple; Grounded ready to help! - TCKU K-Type Thermocouple; Ungrounded - TC?G Replace "?" with other T/C type E, T, R, S, N, B or C; Grounded - TC?U Replace "?" with other T/C type E, T, R, S, N, B or C; Ungrounded - 2TC?G Replace "?" with J, K, T or E T/C, Grounded (Dual Sensor) - 2TC?U Replace "?" with J, K, T or E T/C, Ungrounded (Dual Sensor) *Note: Other RTD and T/C types are also available. Consult factory for details. Continued on next page

TRY / C - P2 / U4 - T0 / S304 / -26 - NUR - PT14 -.06 [LH1NS] (Ordering Number Example)

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

Options (See Page 7 for Descriptions)

- -.04 1/3 DIN High Accuracy RTD Sensor (.04%)
- -.06 Class "A" High Accuracy RTD Sensor (.06%)
- -VTB High Accuracy Temperature System Calibration with NIST Test Data Report (Add .04 or .06 Accuracy RTD)
- -VTD Standard Factory Calibration with NIST Test Data Report
- -WW Wire Wound Option for Temperatures Below -10°F (For RTDs Only)
- Extended Temperature Required Above +800°F to 1000°F (RTDs Only) -ETR
- -RM? Remote-Mounted Terminal Block; Replace "?" with Connection Head Type for the Terminal Block, i.e. -RMLH1NS
- -TB6 6-Position Terminal Block (Specify when No Transmitter is Selected)
- -TB8 8-Position Terminal Block (Mounted in Enclosure, Specify When No Transmitter)
- Functional Safety (Yellow) LH2 Housing. Can Only be Ordered with LH2* Connection Head or with STZ and -RMLH2* Option -FS

LH1NS**	Aluminum Body with Valox (357U) Cap, NEMA 4X, IP66 (Not available with STZ)
LH2NS**	Aluminum Body with Aluminum Cap, Explosion-Proof/Flameproof
CH6	Polypropylene Body and Cap, NEMA 4
CH3	Polypropylene Body and Cap, NEMA 4 with Integral Terminal Block
CH21	Stainless Steel 316 Body and Cap, NEMA 4; used with Transmitter
CH19	Stainless Steel 316 Body and Cap, NEMA 4; used with TB6, Terminal Block
CH0	No Connection Head (Well with Sensor Assembly Only)
WEL	Well Only (No Sensor, Transmitter, Fitting or Connection Head)
	**Note: Add "P" Suffix to Enclosure (i.e., LH1NSP) for 2-inch Pipe-Mount Hardware.

TRY/C - P2/U4 - T0/S304/-26-NUR - PT104 -.06 [LH1NS] (Ordering Number Example)

Factory Calibration Available

Sensor-to-Transmitter Trimming-Our state-ofthe-art Calibration Suite provides exceptional accuracy by immersing the system's sensor in a precision calibration bath, then using the transmitter to "capture"



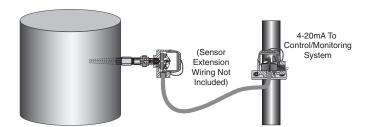
the sensor's true readings. This method effectively compensates for errors caused by inherent sensor inaccuracies. The system

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.



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

Universal Temperature Transmitter (See Page 7 and TRY/TRX, THZ³ and STZ Data Sheets for Specifications)

THZ³ Isolated, Dual Input Smart HART[®] Temperature Transmitter (Standard)

- **STZ** Isolated, Functional Safety Dual Input Smart HART[®] Temperature Transmitter (Standard)
- TRX Non-Isolated, PC-Programmable Temperature Transmitter (Standard)
- **TRY** Isolated, PC-Programmable Temperature Transmitter (Standard)

SEN Sensor Only; No Transmitter (Standard)

Sensor Length ("CL" Dimension) (See Page 3) Replace "?" with any Sensor Length (e.g., CL2.75, CL6) (2- through 16-inch Lengths are Standard) CL? Sensor Sheath Diameter D12 0.125-inch Diameter (Consult Factory) D18 0.187-inch Diameter (Consult Factory) 0.25-inch Diameter (Standard) D25 D38 0.38-inch Diameter (Consult Factory) Sensor Sheath Material S316 SS316 (Standard) INC Inconel 600 Sensor Type (See Page 6 for Specifications) Platinum 385 RTD; 3- and 4-Wire; 100 ohm PT1C4 PT10C4 Platinum 385 RTD; 3- and 4-Wire; 1000 ohm 2PT14 Dual Element Pt 385 RTD: 3- and 4-Wire: 100 ohm 2PT104 Dual Element Pt 385 RTD; 3- and 4-Wire; 1000 ohm CUC4 Copper RTD; 3- and 4-Wire; 10 ohm NC1204 Nickel RTD; 3- and 4-Wire; 120 ohm TCC?G Replace "?" with J, K, T, E, R, S, N, B or C T/C, Grounded Replace "?" with J, K, T, E, R, S, N, B or C T/C, Ungrounded TCC?U Replace "?" with J, K, T or E T/C, Grounded (Dual Sensor) 2TC?G Replace "?" with J, K, T or E T/C, Ungrounded (Dual Sensor) 2TC?U Options (See Page 6 for Descriptions) Sensor Options: 1/3 DIN High Accuracy RTD Sensor (.04%) -.04 -.06 Class "A" High Accuracy RTD Sensor (.06%) High Accuracy Temperature Bath Calibration with NIST Test Data -VTB -VTD Standard Factory Transmitter Calibration with NIST Test Data -WW Wire Wound Option for Temperatures Below -10°F (For RTDs Only) Extended Temperature Required above +800°F to 1000°F (RTDs only) -ETR -TB6 6-Position Terminal Block (Mounted in Enclosure) -TB8 8-Position Terminal Block (Mounted in Enclosure, Specify When No Transmitter) **Enclosure Options:** Remote-Mounted Terminal Block; Replace "?" with Connection Head Type for the -RM?** Terminal Block, i.e. -RMLH1NS (Include -LL? Needed) Special Wire Jacket Length plus 6-8" Lead Wires - Replace "?" with Length up -LL? to 120" (Specify in 0.25-inch Increments) -FS Functional Safety (Yellow) LH2 Housing. Can Only be Ordered with LH2* Connection Head or with STZ and -RMLH2* Option **Connection Head** LH1NS** Aluminum Body with Valox Cap, NEMA 4X, IP66 (Not available with STZ) LH2NS** Aluminum Body with Aluminum Cap, Explosion-Proof/Flameproof CH6 Polypropylene Body and Cap, NEMA 4X CH3 Polypropylene Body and Cap, NEMA 4X with Integral Terminal Block **CH21** Stainless Steel 316 Body and Cap, NEMA 4X **CH19** Stainless Steel 316 Body and Cap, NEMA 4X SEN Sensor Only (No Transmitter or Head) ** Add "P" Suffix to Enclosure (i.e., LH1NSP) for 2-inch Pipe-Mount Hardware.

THZ3 / CL6 / D25 / S316 / -PT10C4

[LH2NS] (Ordering Number Example)

-.06

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