

We're Your One Stop Temp Shop

One simple model number is all it takes to order our complete, **Ready-to-Install Temperature Assemblies**. They include your choice of:

Universal PC-Programmable, Smart HART® and Fieldbus Temperature Transmitters

The Unique “WORM” Flexible, and Straight RTD and Thermocouple Sensors

General, Hazardous Area and Explosion-Proof Connection Heads and Enclosures

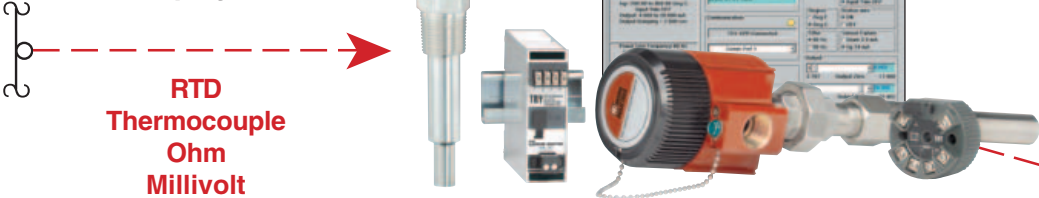
A Wide Array of Thermowells, Flanges and Fittings

Worldwide Hazardous Area Safety Certifications



Universal Intelligent
Temperature Transmitters

TRY, TRX & TDY
2-Wire,
PC-Programmable
Temperature Transmitters
With and Without
Display



Capabilities

- Input-to-output analog accuracy of up to $\pm 0.014^{\circ}\text{C}$ ($\pm 0.025^{\circ}\text{F}$) is the absolute best in the industry
- RTD (2-, 3- and 4-wire; Pt, Cu, Ni), thermocouple (J, K, E, T, R, S, N, C, B), mV and ohm inputs
- -200 to $+2300^{\circ}\text{C}$ (-328 to $+4172^{\circ}\text{F}$) ranges
- Long-term stability delivers up to 5 years between calibrations
- Analog, HART, MODBUS, FOUNDATION Fieldbus and PROFIBUS outputs
- PC-, HART- and site-programmable models
- Real-time process readout on large integral displays
- 2-wire (loop-powered) and 4-wire (line-powered) models
- Isolated, linearized and RFI/EMI protected
- Patented "Total Sensor Diagnostics" speeds troubleshooting
- DIN-rail, surface, relay track, pipe and explosion-proof mounting
- Ready-to-install assemblies with sensor, transmitter, thermowell, fittings and well head



THZ² & TDZ²
2-Wire,
Smart HART[®]
Temperature
Transmitters With and
Without Display

4-20mA
HART[®]



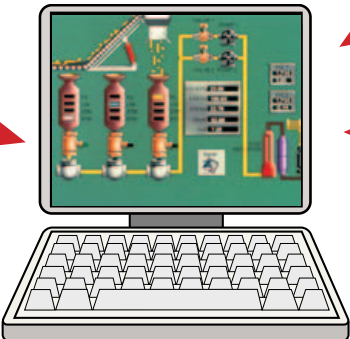
RIY, TIY & SPT
2-Wire & 4-Wire
Site-Programmable
Temperature Transmitters
With Display

4-20mA

4-20mA
Relay



SPA²
Combination
Universal
Temperature
Transmitter and Alarm



Ethernet
MODBUS[®]
OPC

FOUNDATION Fieldbus[™]
PROFIBUS

MODBUS[®]
OPC



NCS
NET Concentrator System[®]
Intelligent Process Control
and Distributed I/O



TFZ & TPZ
FOUNDATION Fieldbus[™]
and PROFIBUS
Temperature Transmitters
With Display



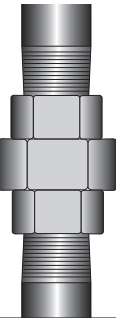
TMZ
4-Wire,
MODBUS[®]
Temperature
Transmitter

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*HART is a registered trademark of the HART Communication Foundation.
*NCS, NET Concentrator and NET Concentrator System are registered trademarks of Moore Industries-International, Inc.

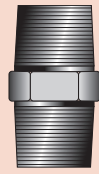
Complete, Ready-to-Install Temperature Assemblies

Process Connections

Nipple, Union, Spring-Loaded Fitting



Spring-Loaded Fitting

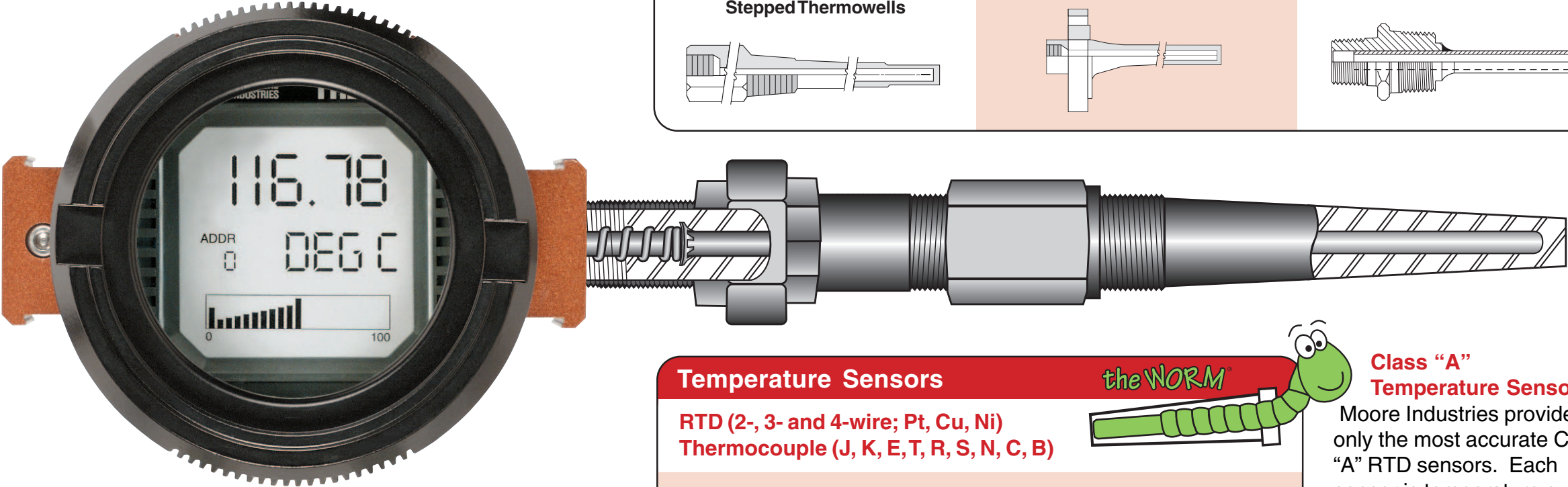


Fluid Seal Fitting

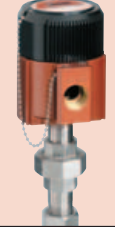


We're Your One Stop Temp Shop
One simple model number is all it takes to order our complete, Ready-to-Install Temperature Assemblies.

All you have to do is install them into your process, connect a couple of loop wires and you're in business.

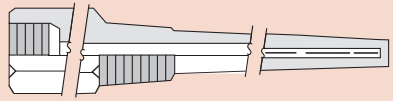
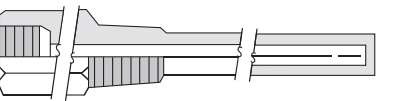
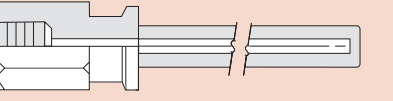
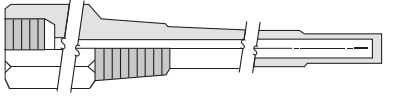
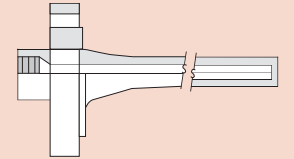
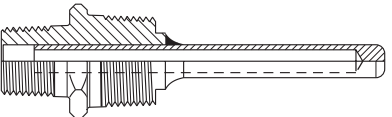


General and Hazardous Area Connection Heads and Enclosures

DH Dual-Sided Explosion-Proof	LH Explosion-Proof NEMA 4X (IP66)	BH Explosion-Proof NEMA 4X (IP66)	SB Stainless Steel Explosion-Proof NEMA 4X (IP66)	D-Box NEMA 4X (IP66)	CH19 Stainless Steel NEMA 4	CH6 Polypropylene NEMA 4	R-Box NEMA 4X (IP66)
							

Thermowells

Stainless Steel 304, 316, 310 and 446; Brass; Carbon Steel (others available)

Heavy-Duty, Threaded, Tapered Thermowells	Standard-Duty, Threaded, Straight Thermowells	Sanitary Thermowells
		
Standard-Duty, Threaded, Stepped Thermowells	Flanged Thermowells	Protection Tube
		

Temperature Sensors

RTD (2-, 3- and 4-wire; Pt, Cu, Ni)
Thermocouple (J, K, E, T, R, S, N, C, B)

“the WORM” Flexible Sensors



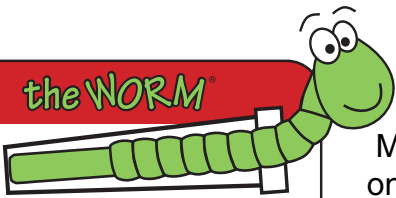
Straight Sensors



Fixed Immersion Probe Sensors



Sanitary Sensors



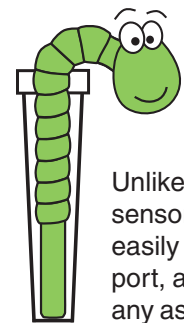
Class “A” Temperature Sensors

Moore Industries provides only the most accurate Class “A” RTD sensors. Each sensor is temperature cycled for 1000 hours, at 0°C and 600°C, to ensure each meets our precision requirements.

After passing this test, the sensors are assembled into a sensor sheath, and cycled again to pass a conformity test.

This process allows the sensor to achieve a stable resistance and maintain its coefficient accuracy over a greater lifetime after final assembly.

“the WORM®” Flexible RTD and Thermocouple Sensors



The standard for our temperature assemblies, this versatile, spring-loaded, flexible sensor trims-to-length, providing quick and easy installation.

Unlike conventional sensors, such as straight sensors, the WORM's flexible design allows it to easily slide right through the connection head port, and into the assembly, without removing any assembly components.

Ready-to-Install Temperature Assemblies for Surface Measurements

Featuring our innovative WORM Flexible Temperature Sensor, these versatile temperature assemblies mount directly to tanks, pipes, motors, compressors, reactors or anywhere else a skin (surface) temperature measurement is needed.

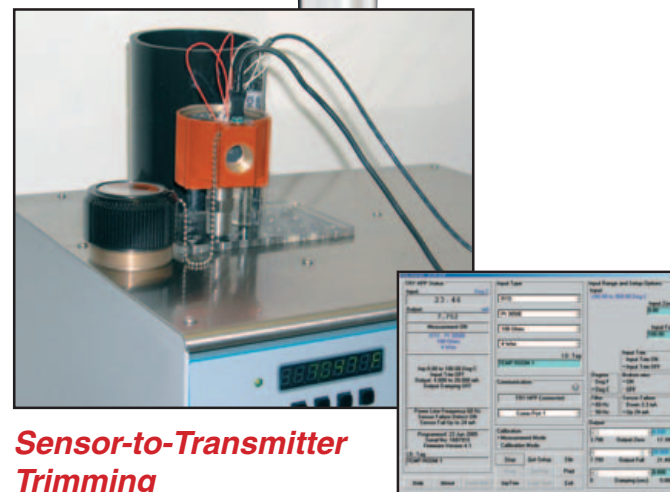
Precise engineering and solid, sturdy construction allow these assemblies to endure the harshest plant conditions and field environments.



High-Accuracy Factory Calibration Services

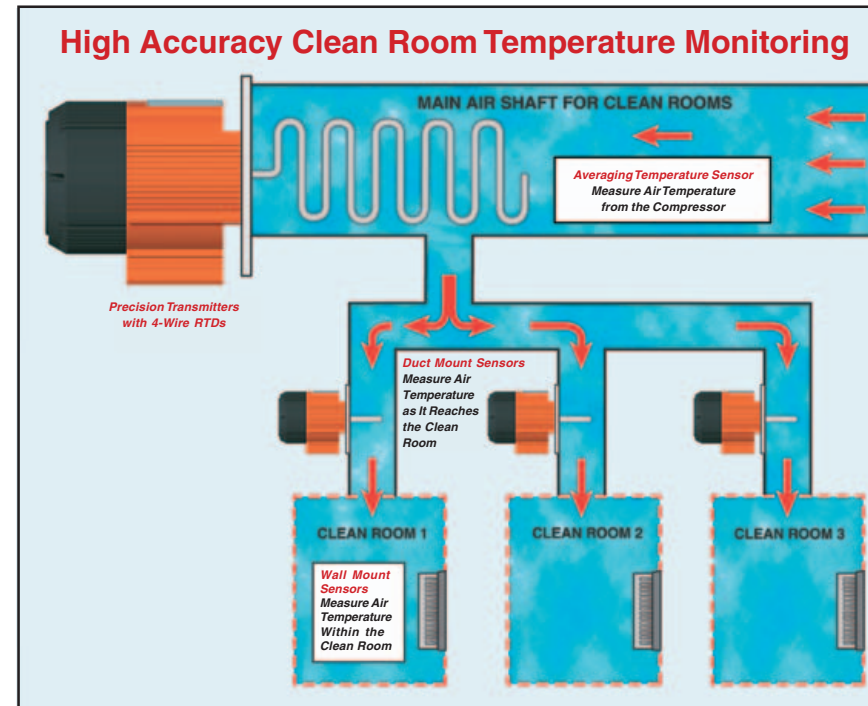
When applications demand exceptional accuracy, our Sensor-to-Transmitter Trimming provides measurement accuracy up to an amazing $\pm 0.014^{\circ}\text{C}$ ($\pm 0.025^{\circ}\text{F}$).

Performed in our state-of-the-art computerized “Calibration Suite”, high accuracy factory calibration assures that our sensor and transmitter combinations work together to deliver exceptionally precise measurements.

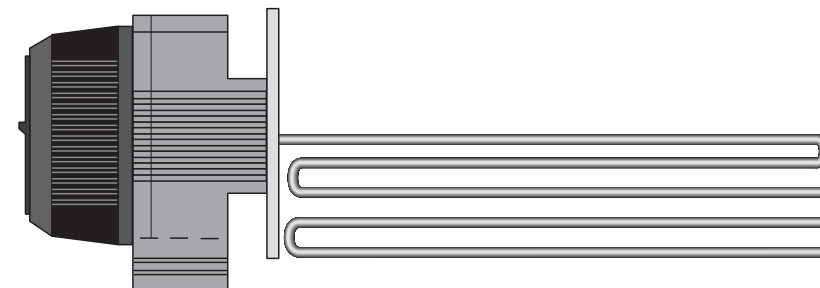


**Sensor-to-Transmitter
Trimming**

*The WORM is a registered trademark of Moore Industries-International, Inc.



Surface-Mount Air Duct Average Temperature Monitoring System



Wall/Duct Mount Temperature Assembly for Monitoring Cleanrooms and Air Ducts



Temperature Monitoring Solutions for Hi-Tech Facility and Process Control

In numerous hi-tech applications such as semiconductor, micro-electronics, pharmaceuticals and biotech, maintaining stable facility and process temperature conditions is a primary factor for on-spec product and predictable yields.

Moore Industries' Hi-Tech Solutions reliably monitor ambient and process temperature conditions in manufacturing operations, machine tools, cleanrooms, laboratories, storage and production facilities.

Wall-Mount Room Air Temperature Monitoring System



“Why Use Temperature Transmitters Instead of Direct Wiring?”

Running temperature sensors directly to your DCS or PLC seems cheaper, but in the long run (especially with long sensor runs), is it really? Learn how to save time and money using transmitters.

**Ask for a
copy of this
white paper.**



Complementary Temperature Solutions



Process Control and Distributed I/O is the ideal solution.

When large numbers of temperature signals must be transmitted between the field and control room, our **NCS NET Concentrator System®**

Combination **Limit Alarm Trip/Transmitter** instruments reduce costs when both temperature alarming and monitoring functions are needed at the same location.



Featuring a NEMA 4X front panel and extra-bright display, our **Process Controllers** control and monitor a temperature process variable in batch and continuous processes.

Our industry-first **HART Interfaces and Monitors** unlock the full potential of HART transmitters by allowing up to three additional measurements from a smart transmitter with no additional process penetrations or wiring.



Worldwide Safety Certifications

Our commitment to quality extends to individual products. Our instruments hold hundreds of approvals from major certifying agencies.

Certification	Agency
Explosion-Proof (Class I, Div. 1)	CSA, FMRC, ISSeP, SAA
Intrinsically-Safe (Class I, II, III, Div. 1)	CSA, FMRC, KEMA, SAA, SIRA, LCIE
Non-Incendive (Class I, Div. 2)	CSA, FMRC
Type N	ATEX CERTIFIED
General Location	CSA, UL
CE Compliance	Self-Issued

Worldwide Hazardous Area Safety Certifications



Explosion-Proof •
Intrinsically-Safe • Non-Incendive •
Flame-Proof

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- Need installation assistance?
- Need a price and delivery quotation?
- Have product certification or safety-related instrumentation questions?
- Want a CD catalog, application notes, data sheet or user's manual?

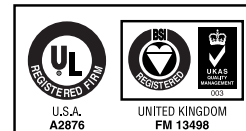


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