



SmartLine Temperature Transmitters
Modular, Accurate and Reliable for the
Lowest Cost of Ownership



Redefining Smart

Honeywell's SmartLine® temperature transmitter sets a new standard for total performance in harsh and noisy process environments. Along with SmartLine Pressure, these transmitters are the industry's first modular and most reliable transmitters, delivering total value across the entire plant lifecycle.

SmartLine Delivers:

Leading Performance

Unique Features That Lower Your Total Cost Of Ownership

Efficient Control System Integration

- The industry's most reliable and robust temperature transmitter, featuring dual compartment housing and intuitive diagnostics for both the transmitter and the sensor.
- An innovative modular design reduces complexity along the entire lifecycle, from avoiding initial purchasing costs to reducing maintenance and inventory costs by eliminating the number of spare parts required and simplifying module replacements and upgrades.
- Built-in dual input option and digital output option minimizes the number of instruments needed for both monitoring and switching needs, reducing the initial investment cost.
- An advanced display and local configuration provides capabilities for field operators to more efficiently perform tasks, solve problems and avoid errors with no need for a handheld device.
- Unique Smart Connection Suite control system integration delivers transmitter messaging, maintenance mode indication and tamper alerts to improve your field time to repair and control room communication, avoid unit trips and make your employees more efficient.



With better performance, modular construction, an advanced display and the best integration features, Honeywell helps our customers reduce project costs and startup time, avoid unplanned downtime, improve product quality, reduce spare parts inventory and shorten time to repair.



Modular Design

All SmartLine transmitters are modular in design, making it easy to replace or upgrade hardware in the field, even under power, without affecting overall performance or impinging on approval body certifications. Some modular parts can even be shared between pressure and temperature transmitters, further reducing inventory and enhancing flexibility.

Advanced Display and Configuration

A rich advanced display and local configuration capabilities enables field operators to more efficiently perform tasks, solve problems and avoid errors with no need for a handheld device.

In addition to configuring with any handheld device or through asset management DTMs, users can configure the transmitters through externally accessible buttons, even in an intrinsically safe environment. Now, whether on the bench or in the field, configure, change tag information, change languages and even more without needing a handheld device.



Polarity Insensitivity

Loop wiring can be reversed without damaging or effecting normal operation. This avoids costly rework on large installations where multiple contractors may use different wiring standards and eliminates return trips to re-wire.

Smart Connection Suite

All SmartLine transmitters integrate with all control systems. In addition, with seamless integration with Honeywell's Experion® PKS, operators benefit from these unique advantages:

- Extended diagnostics — assess the health of critical field assets.
- Maintenance status display — ensure the transmitter is in the right mode before maintenance can be performed.
- Transmitter messaging — allows the operator to send messages to the transmitters advanced display.

Sensor Health

SmartLine Temperature offers robust sensor health diagnostics to closely monitor the health of the sensor. Alerts can be generated and the sensor health trend can be displayed in the advanced display. It has the intelligence to learn the resistance characteristics of all the thermocouple sensors to give the users a real-time dynamic view.

With plug-in modules, users can easily add or upgrade:

- Basic or advanced digital displays.
- Field-exchangeable communication modules for HART, Honeywell Digital Enhanced (DE), Foundation Fieldbus or Profibus.
- Wiring terminal boards for standard or advanced lightning-protected applications.
- Three-button local configuration.



Honeywell transmitters are recognized for their unsurpassed accuracy and performance:

- Transmitter stability — up to 0.05% of span per year for ten years
- Digital accuracy — 0.1 degree C with optional 0.08 degree C for RTD
- Output accuracy of 0.005%
- Response time — as fast as 130Ms
- Continuous thermocouple health monitoring and trending
- Namur 43/89 and 107 compliance
- Sensor matching function for higher accuracy
- 2kv isolation for protection from ground loops and electrical interference
- On-board ambient temperature , remote and built-in cold junction compensation
- Single as well as dual sensor input options
- Redundant and differential temperature measurements
- Sensor drift alert
- Temperature dependant switch over
- Unequaled local display capabilities
- Field calibration and configuration through external three button facility
- Polarity-insensitive electrical connections
- Comprehensive on-board diagnostic capabilities
- Full compliance to SIL 2/3 requirements as a standard
- Advanced display supports:
 - Up to eight screens with three formats: process variable, bar graph and trend
 - Full library of engineering units with the ability to add custom units
 - Configurable screen rotation timing
 - Multiple languages
 - Two diagnostic indications
 - 90-degree position adjustments
- Available 15-year warranty

For More Information

To learn more about Honeywell's SmartLine Temperature Transmitters, visit www.honeywellprocess.com or contact your Honeywell account manager.

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