

SMARTLINE TEMPERATURE TRANSMITTERS

Modular, Accurate and Reliable for the
Lowest Cost of Ownership



With better performance, modular construction, additional diagnostics and the best integration features, Honeywell SmartLine® transmitters help you reduce project costs and startup time, avoid unplanned downtime, improve product quality, reduce spare parts inventory and shorten time to repair.



SmartLine STT850 and STT750 Temperature Transmitters

SmartLine STT850 and STT750 are industry's most reliable and robust temperature transmitters, featuring dual compartment housing and intuitive diagnostics for both the transmitter and the sensor.

The availability of the dual input and digital output options minimize the number of instruments needed for both monitoring and switching needs, reducing the initial investment cost*.

Industry Leading Stability

SmartLine Temperature Transmitters feature the best stability with a drift specification of 0.01% of the URL per year for up to ten years. This superior performance reduces calibration frequency and lessens the need for periodic maintenance.

Modular Design

SmartLine STT850 and STT750 Temperature 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 with the SmartLine Pressure Transmitters, further reducing inventory and enhancing flexibility.

Universal Terminals

Loop wiring can be reversed without damaging or affecting normal operations. This reduces costly wiring errors, troubleshooting and rework, saving valuable commissioning time.

Advanced Display and Configuration

The rich advanced display of the STT850 or the basic display of the STT750 coupled with the 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 using the new device type managers (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 parameters, change tag information, or change languages and even more without additional devices.

"[SmartLine] instruments help with our check out time for new installations. If the HART transmitter has the tag number configured, once the wires are terminated/point loaded into Experion PKS, we can see if all terminations are connected to the correct transmitter. This allows us to reduce our time during checkout of new equipment."

Jon Robertson,
Hess

"Because of our positive experiences, we at Gaylord Chemical are transitioning to only using SmartLine Transmitters. Some characteristics we appreciate regarding SmartLine are:

- Accuracy
- Dependability
- Modular design
- Reduction of calibration requirements
- Universal features"

Steve Barber,
Gaylord Chemical Company



* STT850 only

SmartLine STT700 Temperature Transmitter for Broad Application Use

The STT700 features an outstanding performance to price value combination making it suitable for the bulk of your temperature sensing needs. With performance suitable for control but at a market value typical of those transmitters used for monitoring, the STT700 can be the site's go-to temperature transmitter.



Best-in-Class Stability and Accuracy

The STT700 features stability of 0.05% of URL per year for up to 10 years, and a digital accuracy of 0.15% (RTD PT100). This performance means that the STT700 can provide long-term reliable and accurate measurements for years, requiring less servicing than other transmitters in this performance class.

Industry Leading Response Time

The STT700's analog output will reach 96% of the final output within 500 msec which is the performance leader in its class. Faster response time means that the STT700 can be used beyond just monitoring; it has the performance to meet control applications as well.

Diverse Options for Comprehensive Site Deployment

With a diverse set of options including single or dual input, HART or DE protocols, universal sensor inputs, 2-, 3- or 4-wire RTDs, four different mount options, SIL 2/3 certification and various safety agency approvals, the STT700 can be targeted for usage across the entire plant site.

SmartLine STT650 DIN Rail Mounted Temperature Transmitter

SmartLine STT650 DIN Rail Mounted Temperature Transmitter offers high measurement accuracy, stability and reliability over a wide range of process and ambient temperatures.

Designed and manufactured to deliver very high performance, the STT650 transmitter easily meets the most demanding needs for temperature measurement applications. The total accuracy level of the transmitter, including the ambient temperature effect in harsh industrial environments, allows the STT650 transmitter to replace virtually any transmitter available today.

Another great value is the dual channel options combined with the compact design that can help save over 40% panel space, lowering costs and inventory with it.





SmartLine Connection Advantage with Experion

All SmartLine transmitters integrate with all controls systems. In addition, the STT850, STT750, and STT700 offer additional benefits when integrating with the Experion control system, including:

- Auto Device Commissioning which reduces the time to check out, resolve configuration errors and commissioning time.
- Field Device Manager with full offline configuration capability allows the decoupling and late-binding of the physical hardware to the transmitter configuration.
- Comprehensive testing with Experion assures trouble-free integration and faster startups.

With SmartLine, the advantages go beyond transmitter performance; the advantages help to reduce project risk.

For More Information

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

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Redefining Smart

Honeywell's SmartLine transmitters include the industry's first modular and most reliable transmitters, delivering total value across the entireplant lifecycle and setting the standard for totalperformance in harsh and noisy process environments. The SmartLine family includes the STT850/STT750 field mounted, the STT700 field, head and DIN rail mounted, and the STT650 DIN rail mounted temperature transmitters, offering high accuracy and stability over a wide range of process and ambient temperatures.



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