

**Honeywell** | Connected Industrial

# 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 Connection Advantage with Experion

All SmartLine transmitters integrate with all control systems. In addition, seamless integration with the Experion® control system brings these unique advantages:

- Transmitter Messaging\* allows the operator to send and display custom messages to the display so field operators can quickly identify the right transmitter and task.
- Maintenance Mode Indication\* displays a message on the display that the transmitter and/or the loop is in a mode suitable for maintenance.
- Unique Tamper Reporting\* notifies the control room that an attempt to change a write-protected configuration has been made or that the write protection has been switched off.
- Field Device Manager (FDM) is Honeywell's centralized asset management system for smart field device configuration and maintenance. When SmartLine data is integrated into FDM, users can create hierarchical screen displays for quick and easy views of device health from areas of the plant or process.
- With comprehensive testing, Honeywell provides trouble-free integration for faster startups.

## 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.





## Redefining Smart

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

### For More Information

To learn more about Honeywell's SmartLine Temperature Transmitters, visit [www.honeywellprocess.com/smartline](http://www.honeywellprocess.com/smartline) or contact your Honeywell account manager.

### Honeywell Process Solutions

1250 West Sam Houston Parkway South  
Houston, TX 77042

Honeywell House, Arlington Business Park  
Bracknell, Berkshire, England RG12 1EB

Building #1, 555 Huanke Road,  
Zhangjiang Hi-Tech Park, Pudong Shanghai

[www.honeywellprocess.com](http://www.honeywellprocess.com)

SmartLine® and Experion® are registered trademarks of Honeywell International Inc. HART® and FOUNDATION™ Fieldbus belong to the FieldComm Group.

BR-17-04-ENG | 01/17  
©2017 Honeywell International Inc.

**Honeywell**