



STT250 **Advanced Temperature Transmitters** **for Greater Plant Optimization**



Honeywell Smart and Stable Temperature Transmitters

Widely used in the process industries the Honeywell STT 3000® Smart Temperature Transmitters meet a broad range of temperature measurement needs and provide reliability, stability and accuracy for monitoring, control and safety applications. Offered as a three-tiered solution, the transmitters are available in OEM packages and ready-to-install assemblies with globally accepted approvals, communications and diagnostics.



The STT250 is Offered in Five Variants:

- **STT25D**
 - Single input
 - DE protocol
- **STT25H**
 - Single input
 - HART™ protocol
- **STT25S**
 - Single input
 - HART6 protocol
 - SIL2 TÜV certification
- **STT25M**
 - Single input
 - 4 to 20mA output
- **STT25T**
 - Dual input
 - HART™ protocol

Ideal for Control and Safety Applications

STT250



Honeywell Innovation and Expertise

No matter where your operations are located around the world, timely and knowledgeable Honeywell support is always close and convenient through our global Technical Assistance Center. Customers are assured of thorough documentation and expert assistance from skilled Honeywell personnel to:

- Achieve faster and smoother startups
- Minimize troubleshooting delays during initial programming and implementation
- Maintain continuity despite any turnover in your organization's personnel
- Maximize payback from earlier investments in Honeywell equipment with new features

STT250 Smart Temperature Transmitter

The STT250 is a mid-tier transmitter that is ideal for control and safety temperature measurement applications. It is a more advanced solution with increased functionality in a compact module. The STT250 features dual-inputs, advanced diagnostics and redundant sensor, and is available with SIL2 TÜV safety certification.

- Universal sensor inputs – RTDs, thermocouples or mixed sensor types Pt100, J, K, T or E
- Available with integral engineering units meter
- All HART variants are compatible with open standards such as DTM and EDDL
- Supports multiple communication protocols, including DE, HART5 & HART6
- Supports advanced functions like sensor matching for superior accuracy performance
- Mounting options include wall, pipe, DIN rail and direct sensor head mounting
- Suitable for 2,3 or 4 -wire Pt100
- Hard-wired upscale/downscale fail-safe link to ensure secure operation in the event of a failure
- Open circuit sensor analysis carried out in every measurement cycle
- Selectable latching/non-latching fail-safe operation for open circuit sensor
- Analog-to-digital converter validated frequently

Key Benefits

- **Safe and Reliable Operation**
 - TÜV SIL2 certified
 - Dual-input facility with sensor drift detection
 - Sensor back-up facility
 - Ambient temperature monitoring
 - Advanced diagnostics
 - Global agency approvals for IS/explosion-proof classifications
- **Faster Startup and Commissioning**
 - HART6 option to support enhanced interoperability with host systems
 - Supports EDDL standards for enhanced visualization of the device and process
 - Supports HART DTMs for easier device management through host
- **Ease of Maintenance and Operation**
 - Modular construction
 - Flexible mounting options for wall/pipe/DIN-rail/head-mount
 - Advanced diagnostics
 - Time tracking and PV tracking functions to simplify troubleshooting and root cause analysis
- **Lower Cost of Ownership**
 - Dual sensor inputs for differential/averaging/split ranging/redundant measurements*
 - Reduced requirement for spares thanks to modular construction
 - Prevents plant shutdown due to advanced diagnostics, sensor drift alarm and sensor back-up

* Consult factory for the availability

User Benefits and Model Selection Guide

Attributes	STT25H	STT25S	STT25T	STT25D	STT25M
Input Type–Universal (TC/RTD/mv/Ohms)	●	●	●	●	●
Dual Input Facility			●		
Local Meter	●	●	●	●	●
Communication Protocol	HART5&6*	HART6	HART5&6*	DE	Analog Only
Communication Tool	MC Toolkit EMR 375/475	MC Toolkit EMR 375/475	MC Toolkit EMR 375/475	MC Toolkit SFC/SCT 3000	MC Toolkit SFC/SCT 3000
Mounting Options (field/wall/DIN rail/head mount)	●	●	●	●	●
Integrated Assembly Option–STT800	●	●	●	●	●
Sensor Matching Function	●	●	●		
NAMUR43 Compliance	●	●	●		●
TÜV SIL2 Certification		●	With HART6* Version		

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User	Benefits
Plant Manager	<ul style="list-style-type: none"> Lower cost of ownership due to modular construction and universal input facility Reduced plant trips and unplanned shutdown with advanced diagnostics
Engineer	<ul style="list-style-type: none"> Ease of installation with flexible mounting options and modular construction Simple trouble-shooting with advanced diagnostics Ease of configuration and commissioning with open standard support Viz EDDL/DTM
Maintenance Manager	<ul style="list-style-type: none"> Honeywell's Global Technical Support is a dynamic team of experienced engineers providing pre- and post-sales technical support General reading functions help read the model number and serial number of the transmitter for easy tracking, re-ordering, inventory management and documentation
Operator	<ul style="list-style-type: none"> Advanced diagnostics help prevent unplanned shutdown and ensure more efficient operations Improved visualization of device as well as process through EDDL support

Global Agency Certifications:

Honeywell STT 3000 Temperature Transmitters are globally certified.



For More Information

To learn more about Honeywell's STT250 Smart Temperature Transmitters, contact your local Honeywell account manager or visit our web site at www.honeywellprocess.com.

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