



## Pressure and Temperature Transmitters





# Accurate and Consistent Measurement

Honeywell's portfolio of pressure and temperature transmitters provides accurate and consistent measurement while reducing risk and avoiding downtime. Utilizing smart technology, Honeywell's industry-leading transmitters are cost- and energy-efficient, flexible and accurate even in the most demanding circumstances and harsh environments.

Simple and affordable to install and manage, Honeywell pressure and temperature transmitters can help customers safely meet a wide spectrum of measurement needs while improving product quality, reducing operational and maintenance costs, and enhancing flexibility.

## ST 2000 Pressure Transmitters

ST 2000 pressure transmitters are a series of two-wire, microprocessor-based 4-20 mA instruments designed as a direct replacement for conventional analog transmitters and indicators. The thick film ceramic sensor can measure gauge or absolute pressure with ranges of 0.2 to 460 bar (3 to 6700 psi). Electronics provide automatic temperature compensation, software linearization and displays the sensor temperature. Parameters can be adjusted digitally. The four-digit LCD indicator displays the measured reading, either in engineering units (bar or psi) or percentage.

- Eight gauge models
- Three absolute models
- Accuracy of  $\pm 0.2\%$

## ST 3000 Pressure Transmitters

Honeywell first introduced the ST 3000® smart pressure transmitter in 1983 and today the ST 3000 Series 100 and 900 lead the industry in accuracy, stability, reliability and rangeability.

Refineries, chemical and pharmaceutical plants, and paper mills across the globe rely on Honeywell's ST 3000 transmitters.

ST 3000 transmitters include differential pressure, absolute pressure, gauge pressure, draft range and remote seal transmitters. ST 3000 consists of two lines to provide the right mix of price and performance to meet your needs. Our sensor fully compensates for the ambient conditions associated with your installation, resulting in exceptional accuracies in process, not just at reference conditions.

The exceptional performance of the ST 3000 Series 100 transmitters makes them ideal for critical process loops and high-dollar applications, such as custody transfer and energy and material balances. Their broad 400:1 turndown ratio can eliminate the need to stack several transmitters in one loop, allowing you to re-range rather than change or add transmitters.

- Accuracy of  $\pm 0.0375\%$
- Stability of  $\pm 0.01\%$  per year
- Reliability of 470 years MTBF
- Rangeability of 400 to 1
- Lifetime warranty of 15 years



### Safety

Protect your people, facility and assets.

### Reliability

More accurate measurement translates to increased reliability.

### Efficiency

Make people, process and assets more effective for increased productivity and profitability.

ST 3000 Series 900 transmitters offer smart performance at analog prices. Accurate, reliable and stable, Series 900 instruments offer a greater turndown ratio than conventional transmitters, along with local zero and span, ideal for today's competitive marketplace. Series 900 transmitters pay for themselves many times over.

- Stability of  $\pm 0.01\%$  per year
- Reliability of 470 years MTBF

All ST 3000 transmitters can provide a 4-20 mA output, Honeywell Digitally Enhanced (DE) output, HART output or Foundation Fieldbus output. When digitally integrated with Honeywell's Experion® Process Knowledge System, ST 3000 instruments provide a more accurate process variable as well as advanced diagnostics, including full HART 6 integration in the Experion system.

### STT170 Temperature Transmitters

The STT170 is a cost-effective solution for temperature monitoring applications and can be programmed for high or low limit alarms to activate in case of sensor failure.

- Cost-effective, low-tier solution with 4-20 mA communications
- Universally PC programmable for both RTDs and thermocouples
- PC configuration
- Ultra-compact size fits into the smallest DIN B head mount housing
- Sensor library with over a dozen of the most used temperature sensor curves
- HART 4-20 mA output
- Foundation Fieldbus protocol

### STT17C

The STT17C configures the STT170 family of temperature transmitters. The intuitive graphical user interface of the STT17C virtually eliminates the need for operator training after installation on a PC. The STT17C includes all software and transmitter interface hardware necessary to configure the STT170 family in non-hazardous work environments.



### STT250 Temperature Transmitters

STT250 offers advanced functionality and competitive performance in a more compact module.

- Universal sensor inputs
- Compact size allows direct head mounting
- Broad selection of housing and materials
- Remote communications
- Available with integral engineering units meter
- Dual-input model with advanced diagnostics and redundant sensor for critical applications

### STT350 Temperature Transmitters

A high-performance, timesaving smart temperature transmitter, the STT350 can be used for new installations or as a replacement for any conventional or smart temperature transmitter.

- One model for most thermocouples or RTDs (2-, 3- or 4-wire)
- No board change, potentiometer adjustment or calibration required
- Remote configurability and rangeability
- Explosion-proof housing on DIN rail mounting
- Remote communications for configuration or diagnostics
- Delta T and redundant sensor capabilities are standard

## MC Toolkit

The Honeywell MC Toolkit Configurator is designed specifically for ease of use and increased productivity. This multipurpose tool supports DE and HART communication protocols and can be used as a universal HART configurator. The MC Toolkit allows easy access to instrument configuration database parameters. The MCT101 is a general purpose version and the MCT202 is available in ruggedized and hazardous location versions.

The MC Toolkit provides two software applications. The MC Toolkit software application configures both Honeywell DE and HART transmitters with the same hardware. The SDC 625 software application configures any HART device whose device description is compliant with the HART standard. Each MC Toolkit is loaded with all HART device description files so that any HART device can be configured, including common, universal and specific device commands. It also allows vendor-specific menus to be run.

The MC Toolkit communicates with the following field devices:

- Honeywell ST 3000 DE and HART pressure transmitters
- Honeywell STT 3000 DE and HART temperature transmitters including the STT250 and STT350
- Any HART transmitter/device by other manufacturers

## For More Information

To learn more about Honeywell's pressure and temperature transmitters, visit [www.honeywell.com/ps](http://www.honeywell.com/ps) or contact your Honeywell account manager.

## Automation & Control Solutions

Process Solutions

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

## Smart Field Configurator

The handheld Smart Field Communicator (SFC) is a battery-powered device which establishes secure two-way communications between Honeywell Smart Transmitters and the user over the existing signal lines. The SFC is extremely useful for simplifying maintenance by providing access to field devices without a trip to the field. When the SFC is connected to the transmitter signal lines at an accessible location anywhere from the control room to the transmitter, the operator can send and receive data from the transmitter's microprocessor.

The SFC is in an impact-resistant housing and comes with test leads, a weatherproof carrying case, Ni-Cd rechargeable battery pack and a battery charger.

## Smartline Configuration Toolkit

The Honeywell Smartline® Configuration Toolkit (SCT 3000) is a PC Windows-based engineering and maintenance tool that allows easy access to all Smartline configuration database parameters using Windows technology for easy navigation through database configuration without the need for prior training, user manuals or previous experience. Familiar Windows edit tools significantly increase user productivity while data reasonability checks help to avoid costly mistakes. Default database templates are provided for each product. Templates with cut-and-paste capability simplify configuration and allow rapid development of configuration databases.



## Wireless Transmitters

In remote, hard to reach or dangerous locations, Honeywell's XYR™ 5000 and XYR 6000 wireless pressure transmitters are the ideal solution. Simple to install and operate, the transmitters deliver a flexible, cost-effective solution that increases accuracy and measurement, and reduces risk and costs. XYR 6000 transmitters integrate seamlessly with XYR 5000 transmitters to meet future wireless standards.

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