

## ST 2000 Gauge and Absolute Pressure Transmitters

The Economical Pressure Solution with High-End Features

The Honeywell ST 2000 Pressure Transmitter is designed to provide reliable yet cost-effective pressure measurement for applications in industries such as food and beverage, power generation, water and waste, pharmaceuticals, fine chemicals, and pulp and paper. The transmitter measures and indicates gauge or absolute pressure with ranges from -1 to 460 bar (-14.5 to 6671 psi) gauge pressure and 0 to 11.5 bar (0 to 165 psia) absolute pressure.

### ST 2000 Pressure Transmitter Features and Benefits:

- Accuracy = 0.2%
- -1 to 460 bar (-14.5 to 6671 psi) gauge pressure
- 0 to 11.5 bar (0 to 165 psia) absolute pressure
- Ceramic sensor
- Temperature compensated for enhanced accuracy
- Easy configuration via large LCD indicator and two pushbuttons
- Intrinsically safe
- Compact and lightweight
- Cost effective

### ST 2000 Family

The ST 2000 family includes eight gauge-pressure models and three absolute-pressure models. All models have a turndown capability of up to 10:1. A thick-film ceramic sensor and micro-processor-based electronics combine to provide a two-wire 4-20mA output signal that is proportional to the measured variable. The microprocessor enhances accuracy by compensating the signal for temperature effects of the sensor.

### Easy-to-Read LCD Display

The ST 2000's built-in, easy-to-read LCD display indicates measured pressure in engineering units (bar or psi) or percentage and also displays the temperature of the sensor. The user can configure the transmitter with the aid of the LCD indicator and two pushbuttons, without the need for reference pressure, a hand-held terminal, or a personal computer.

### ST 2000 Replaces Conventional Analog Transmitters and Indicators

The ST 2000 Pressure Transmitter is designed as a direct replacement for conventional analog transmitters and indicators. It uses the existing transmitter signal lines for power and signal transmission.

### ST 2000 Is Versatile

Several process connections are available for the ST 2000. These include a 0.5-inch NPT and a flush-mount sanitary connection for food applications.



## PRESSURE RANGES, SPAN, and ZERO LIMITS

Transmitter Model	Nominal Range <i>bar / (psi)</i>	Minimum Span <i>bar / (psi)</i>	Maximum Span <i>bar / (psi)</i>	Lower Range Limit/ Upper Range Limit <i>bar / (psi)</i>	Over-Pressure Limit <i>bar / (psi)</i>
<b>GAUGE</b>					
STG20F	0 to 2 / (0 to 30)	0.2 / (3.0)	3.3 / (47)	-1 to 2.3 / (-14.5 to 33)	7 / (100)
STG20G	0 to 5 / (0 to 70)	0.5 / (7)	6.75 / (98)	-1 to 5.75 / (-14.5 to 83)	12 / (174)
STG20H	0 to 10 / (0 to 145)	1 / (14.5)	12.5 / (181)	-1 to 11.5 / (-14.5 to 166)	25 / (362)
STG20K	0 to 20 / (0 to 300)	2 / (30)	24 / (348)	-1 to 23 / (-14.5 to 333)	50 / (725)
STG20L	0 to 50 / (0 to 725)	5 / (72.5)	58.5 / (848)	-1 to 57.5 / (-14.5 to 833)	120 / (1740)
STG20M	0 to 100 / (0 to 1450)	10 / (145)	116 / (1682)	-1 to 115 / (-14.5 to 1667)	250 / (3620)
STG20N	0 to 200 / (0 to 2900)	20 / (290)	231 / (3350)	-1 to 230 / (-14.5 to 3335)	500 / (7250)
STG20P	0 to 400 / (0 to 5800)	40 / (580)	461 / (6686)	-1 to 460 / (-14.5 to 6671)	600 / (8700)
<b>ABSOLUTE</b>					
STA201	0 to 2 / (0 to 30)	0.2 / (3.0)	2.3 / (33)	0 to 2.3 / (0 to 33)	7 / (100)
STA202	0 to 5 / (0 to 70)	0.5 / (7)	5.75 / (83)	0 to 5.75 / (0 to 83)	12 / (174)
STA203	0 to 10 / (0 to 145)	1 / (14.5)	11.5 / (165)	0 to 11.5 / (0 to 165)	25 / (362)

### GENERAL SPECIFICATIONS

Output signal	4-20mA (two wire)
Supply voltage	11.1 to 30 Vdc
Display	4-digit LCD with 18.5 mm (0.75 in.) high characters 5 symbols (bar, mbar, psi, %, sec.) + sensor temp
Damping	Digital damping adjustable from 0 to 51 seconds

### OPERATING CONDITIONS

Temperature	Ambient: -20° to 80°C (-4° to 176°F) Process fluid: -20° to 80°C (-4° to 176°F) Handling & Storage: -20° to 90°C (-4° to 194°F) LCD contrast: -10° to 65°C (14° to 149°F)
Humidity	0 to 100% RH

### PERFORMANCE\*

Accuracy	±0.2% of Nominal Range (includes linearity, hysteresis, and repeatability)
Thermal effect	Zero: ±0.02% / °C (±0.036% / °F) of Nom. Range Span: ±0.02% / °C (±0.036% / °F) of Calibrated Span
Supply voltage effect	Negligible between 11.1 and 30 Vdc
	*within temperature range 0° to 60°C (32° to 140°F)

## Find Out More

For more information about this and other Honeywell products, contact your local Honeywell representative, or access [www.honeywell.com/imc](http://www.honeywell.com/imc).

### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective material and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during that period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular application.

While we provide application assistance, personally, through our literature and the Honeywell Web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change at any time without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

Honeywell Authorized Representative:

**U.S.A.:** Honeywell Industrial Measurement and Control, 2500 W. Union Hills Drive, Phoenix, AZ 85027 • **Canada:** The Honeywell Centre, 155 Gordon Baker Rd., North York, Ontario M2H 3N7  
**Latin America:** Honeywell Inc., 480 Sawgrass Corporate Parkway, Suite 200, Sunrise, Florida 33325 • **Japan:** Honeywell K.K., 14-6 Shibaura 1-chome, Minato-ku, Tokyo, Japan 105-0023  
**Asia:** Honeywell Pte Ltd., Honeywell Building, 17 Changi Business Park Central 1, Singapore 486073, Republic of Singapore • **Pacific Division:** Honeywell Pty Ltd., 5 Thomas Holt Drive, North Ryde NSW Australia 2113 • **Europe and Africa:** Honeywell S. A., Avenue du Bourget 3, 1140 Brussels, Belgium • **Eastern Europe:** Honeywell Praha, s.r.o. Budejovicka 1, 140 21 Prague 4, Czech Republic  
**Middle East:** Honeywell Middle East Ltd., Technology Park, Cert Complex, Block Q, Muroor Rd., Abu Dhabi, U.A.E.

**Honeywell**

## Industrial Measurement and Control

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

SL-53-975 (1M) Rev. 05/03 ©Honeywell International Inc. Printed in U.S.A