imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Honeywell

Stainless Steel Pressure Sensors

ST Series

FEATURES

- Amplified output which eliminates the cost of external amplifiers
- Reverse polarity protection prevents damaged from reversed excitation
- Less than 500 µs response time for accurate high speed measurements
- Exceeds CE Heavy Industrial EMC
- High value with outstanding performance

TYPICAL APPLICATIONS

- Pneumatic equipment
- Air compressors
- Air filtration monitoring
- Industrial controls

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.



The Model ST pressure transducer combines Honeywell's proven silicon pressure sensing with the latest in ASIC technology in a rugged, industrial package. High value, coupled with outstanding performance, make this an ideal transducer for industrial control applications such as air compressors and pneumatic equipment. Temperature compensated, calibrated, and amplified, the ST has pressure ranges from 0 psi to 5.0 psi to 0 psi to 250 psi.

The ST offers three standard output options for user flexibility, which are as follows: a 0.50 Vdc to 4.50 Vdc ratiometric output from 5.0 Vdc excitation, a 0.50 Vdc to 4.50 Vdc regulated output from 7.0 Vdc to 35.0 Vdc excitation, or a 4 mA to 20 mA output from 9.5 Vdc to 35.0 Vdc. The ST transducer delivers $\pm 1.0\%$ full scale accuracy (BFSL) over a wide temperature range of -40 °C to 100 °C [-40 °F to 212 °F] and utilizes a proven industry standard connector for high reliability.

A WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Stainless Steel Pressure Sensors

SPECIFICATIONS

SPECIFICATIONS			
Pressure Ranges ¹			
psig 0 to 5.0, 10.0, 15.	.0, 25.0, 50.0, 100, 150, 200, and 25	50	
bar 0 to 0.4, 0.6, 1.0,	1.6, 2.5, 4.0, 6.0, 10.0, and 16.0		
Physical			
Proof Pressure	≤150 psi [6.0 bar], 3 X rated range		
	>150 psi [6.0 bar], 2 X rated range	9	
Burst Pressure	≤100 psi [6.0 bar], 5 X rated range		
	>100 psi [6.0 bar], 3 X rated range		
Material in contact with	300 series stainless steel or brass, internal seal, silicon, polyetherimide		
media			
Weight	2.0 oz [57.0 gm]		
Environmental ²	· · · ·		
Shock	50 g's peak [5 milliseconds]		
Vibration	Figure 514.2-5, Curve AK, Table 514.2-V, Random Vibration Test [Overall g		
	rms = 20.7 minimum]		
Electrical ³	Voltage	Current	
Null Offset	0.5 Vdc	4.0 MA	
Span	4.0 Vdc [0.50 Vdc to 4.50 Vdc]	16 mA [4 mA to 20 mA]	
Excitation Ratiometric	5.0 Vdc ±250 mV [7.0 Vdc max.]	9.5 Vdc to 35.0 Vdc	
Regulated	7.0 Vdc to 35.0 Vdc		
Supply Current	5.0 mA typical [7.0 mA max.]	N/A	
Source (nominal)	2.0 mA	N/A	
Sink (nominal)	20 µA @ zero output	N/A	
Supply Rejection Ratio	90 decibels	N/A	
Output Impedance	25 Ω max.	N/A	
Performance ³			
Response Time	< 500 μs		
EMI/RFI	Exceeds CE heavy industrial		
	[30v/m radiated 150 kHz to 1 gHz]		
Electrical Connection	Packard Metri-Pack [™] requires mating connector P/N3685901 (order		
	separately)		
Accuracy	±1.0% F.S.O. best fit straight line includes: non-linearity, hysteresis, non-		
	repeatability. Thermal errors are not included.		
Total Error Band	±2% F.S.O. Includes: zero offset error, span error, thermal effect on zero and		
	thermal effect on span, non-linear		
Compensated Operating and	Range -40 °C to 100 °C [-40 °F to 212 °F]		
Storage Temperature Range			
Nata a			

ST Series

Notes:

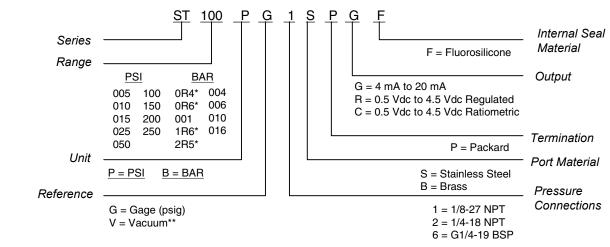
1. Contact the factory to discuss other pressure ranges.

2. Meets IEC-68-2 or MIL-STD 810C.

3. All specifications are measured at 25 °C [77 °F] and at rated excitation unless otherwise specified.

Stainless Steel Pressure Sensors

ST Series



HOW TO ORDER

* The character R replaces the decimal point in fractional pressure ranges.

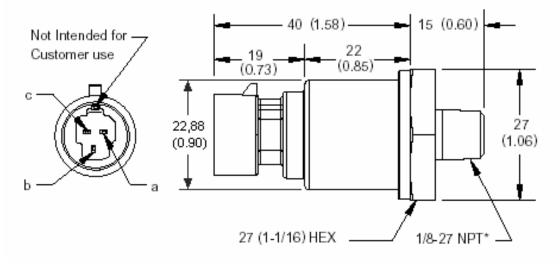
** For 015 pressure range only, full scale output at -14.7 psi.

Note: Not all combinations are available. Minimum quantity orders apply. Contact Honeywell for more details

Stainless Steel Pressure Sensors

ST Series

DIMENSIONS (for reference only) mm (in)



* 1/4-18 NPT and G1/4-19 BSP configurations are both optional. Contact Honeywell to discuss other pressure port options.

PIN AND WIRE CODES

Pins	Voltage	Current
а	+ Excitation	+ Excitation
b	Output	- Excitation
С	Common	No Connection

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the 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 purpose.

Specifications may change 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.

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.

For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

1-800-537-6945 USA 1-800-737-3360 Canada 1-815-235-6847 International **FAX** 1-815-235-6545 USA **INTERNET** www.honeywell.com/sensing

info.sc@honeywell.com



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