



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

ST250PG1SPRF

ST Series Stainless Steel Pressure Sensor with Silicon Diaphragm, Amplified Output, 0 psi to 250 psi

Features

- High value and outstanding performance
- Wide choice of pressure ranges available
- Amplified outputs
- Reverse polarity protection
- Less than 500 microseconds response time
- Industrial housing
- Exceeds CE Heavy Industrial EMC
- Excellent OEM value
- Eliminates cost of external amplifiers
- Not damaged by reversed excitation
- Accurate high speed measurements
- Protected from harsh environments

Typical Applications

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

Description

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 1.0 psi to 0 psi to 259 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 and utilizes a proven industry standard connector for high reliability.

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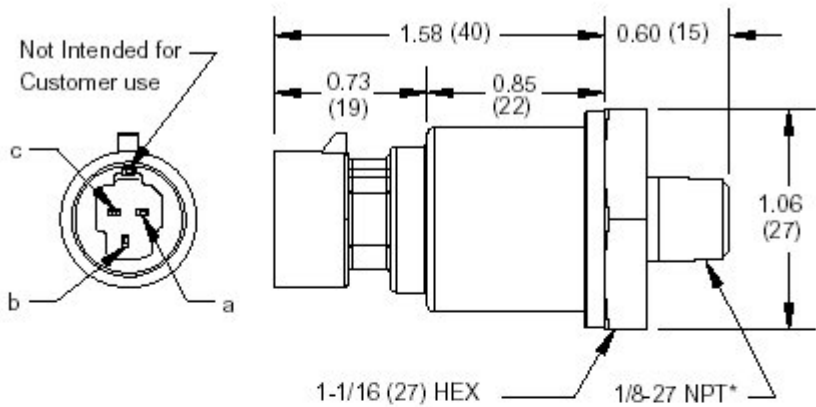
Product Specifications	
Measurement Type	Gage
Signal Conditioning	Amplified
Pressure Range	0 psi to 250 psi
Supply Voltage	7.0 Vdc to 35.0 Vdc
Maximum Overpressure	500 psi
Burst Pressure	750 psi
Port Style	1/8-27 NPT
Temperature Compensation	Yes
Output Type	0.5 Vdc to 4.5 Vdc
Protection Circuitry	Reverse Polarity
Accuracy	1.0% full scale BFSL
Response Time	less than 500 μs
Output Impedance	25 ohms max.
Output Calibration	Yes
Termination Type	Packard Metri-Pack™ Connector
Weight	57 g [2.0 oz]
Full Scale Span	4 Vdc
Compensated Temperature Range	-40 °C to 100 °C [-40 °F to 212 °F]
Storage Temperature Range	-40 °C to 100 °C [-40 °F to 212 °F]
Media Compatibility	Limited only to those media which will not attack a 300 Series stainless, internal seal, sliicon, polyetherimide
Approvals	CE
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	ST Series

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DIMENSIONS

xx.xx = inches
(xx.x) = mm



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

PIN AND WIRE CODES

Pins	Voltage	Current
a	+ Excitation	+ Excitation
b	Output	- Excitation
c	Common	N/C

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WARNING

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.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- 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.