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ST2R5BG1SPGF



Actual product appearance may vary.

ST Series Stainless Steel Pressure Sensor with Silicon Diaphragm, Amplified Output, Gage, 0 bar to 2.5 bar

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

Potential 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 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.

Supporting Documentation

- ▣ [Dimensions and Circuitry](#)
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Product Specifications	
Measurement Type	Gage
Signal Conditioning	Amplified
Pressure Range	0 bar to 2.5 bar
Supply Voltage	9.5 Vdc to 35.0 Vdc
Maximum Overpressure	7.5 bar
Burst Pressure	12.5 bar
Port Style	1/8-27 NPT
Temperature Compensation	Yes
Output Type	4 mA to 20 mA
Protection Circuitry	Reverse Polarity
Accuracy	0.25% 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 grams [2.0 ounces]
Full Scale Span	16 mA
Compensated Temperature Range	-40 °C to 100 °C [-40 °F to 212 °F]
Storage Temperature Range	NO IDEA SHARED FORMULA EXP PTG
Media Compatibility	Limited only to those media which will not attack a 300 Series stainless, internal seal, silicon, polyetherimide
Approvals	CE
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	ST

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