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ST Series Stainless Steel Pressure Sensor with Silicon Diaphragm, Amplified Output, Gage, 0 bar to 0.4 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](#)
- ▶ [Documentation](#)

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Amplified
Pressure Range	0 bar to 0.4 bar
Supply Voltage	9.5 Vdc to 35.0 Vdc
Maximum Overpressure	1.2 bar
Burst Pressure	2 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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