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Actual product appearance may vary.

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 6 bar                                                                                                   |
| Supply Voltage                | 7.0 Vdc to 35.0 Vdc                                                                                              |
| Maximum Overpressure          | 12 bar                                                                                                           |
| Burst Pressure                | 18 bar                                                                                                           |
| Port Style                    | 1/4-18 NPT                                                                                                       |
| Temperature Compensation      | Yes                                                                                                              |
| Output Type                   | 0.5 Vdc to 4.5 Vdc                                                                                               |
| 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               | 4 Vdc                                                                                                            |
| 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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