



ASDXACX015PAAA5 Low Pressure Sensors

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ASDX Series, analog output, amplified, absolute, 15 psi, DIP dual axial package, AC pressure port, 10% to 90% calibration, 5.0 Vdc power supply

Actual product appearance may vary.

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Description

The ASDX is a Silicon Pressure Sensor offering a ratiometric analog pressure over the specified full scale pressure span and temperature range.

The ASDX is fully calibrated and temperature compensated for sensor offset, sensitivity, temperature effects and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). Calibrated output values for pressure are updated at approximately 1 kHz.

The standard ASDX is calibrated over the temperature range of 0 °C to 85 °C [32 °F to 185 °F]. The sensor is characterized for operation from a single power supply of either 3.3 Vdc or 5.0 Vdc.

These sensors are available to measure absolute, differential and gage pressures. The absolute versions have an internal vacuum reference and an output value proportional to absolute pressure. Differential versions allow application of pressure to either side of the sensing diaphragm. Gage versions are referenced to atmospheric pressure and provide an output proportional to pressure variations from atmosphere.

The ASDX Series sensors are intended for use with non-corrosive, non-ionic working fluids such as air and dry gases. They are designed and manufactured according to standards in ISO 9001.

Features

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- Ratiometric 12-bit analog output
- Precision ASIC conditioning and temperature compensated over 0 °C to 85 °C [32 °F to 185 °F] temperature range
- Low operating voltage
- Absolute, differential and gage types
- Pressure ranges from 10 inches H₂O to 100 psi
- Standard calibrations in inches H₂O, psi, cm H₂O, mbar, bar, kPa
- Total error band of ±2.0% of full scale span maximum
- RoHS compliant

Potential Applications

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- Flow calibrators
- Ventilation and airflow monitors
- Gas flow instrumentation
- Sleep apnea monitoring and therapy equipment
- Barometry
- Pneumatic controls
- HVAC