

All Sensors Corporation

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PRESS RELEASE
For Immediate Release

Media Isolated, Stainless Steel Amplified Pressure Sensors

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All Sensors Corporation of Morgan Hill, California has announced a brand new offering of stainless steel, media isolated pressure sensors: the SPA 402 Series. This new, amplified pressure sensor offers design engineers excellent performance in various applications, especially for low and middle pressure and smaller solutions.

Media isolated sensors are designed to operate in hostile environments, yet offer the outstanding sensitivity, linearity, and hysteresis of a silicon sensor. This pressure sensor is compatible with 316L stainless steel, a type of steel that increases corrosion resistance, improves resistance to pitting from chloride ion solutions, and provides increased strength at high temperatures. The piezoresistive sensor chip is housed in a fluid-filled cylindrical cavity and isolated from measured media by a stainless steel diaphragm and body. The SPA 402 silicon pressure sensor is a fully compensated device and has an amplified ratiometric output. Devices are available in 5, 15, 30, 50, 100, 300 and 500 PSI.

Product Features

- Pressure ranges 5 to 500 PSI gauge, 15 to 500 PSI absolute
- Media Isolated
- O-ring mounting
- Vacuum Resistant
- Extended temperature range: -40 to 125°C
- Excellent overpressure characteristics
- Exceptional chemical resistance
- 18mm diaphragm
- Solid state, high reliability, stability
- High accuracy (typ. 0.1% linearity and typ. 0.02% hysteresis)

Electrical Features

- Compensated and calibrated amplified output
- Ratiometric output signal (10% to 90% of supply voltage)
- Supply voltage 2.7 to 5.5 V_{DC}

Applications

Ideal applications for this device are; process control & monitoring systems; medical devices, biomedical instruments; HVAC controls; ship and marine systems; aircraft and avionics systems; environmental engineering; laboratory & calibration applications; fresh & waste water measurements; pressure transmitters

Price

Contact factory for price. Samples are available for product testing.

For additional information, please visit:
<https://www.allsensors.com/products/spa-402-series>

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