

All Sensors Corporation

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PRESS RELEASE
For Immediate Release

Media Isolated, Stainless Steel Millivolt 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 SPM 402 Series. This new pressure sensor series offers excellent performance in various applications, including mid to high pressure and smaller solutions.

Media isolated sensors are designed to operate in hostile environments yet provide 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 oil-filled cavity in this unique pressure sensor design is at a minimum volume so the accuracy is greatly improved. The SPM 402 media isolated pressure sensor is a thermally compensated device and has a millivolt output of up to 210mV at a 1mA supply current. Devices are available in 5 (gauge only), 15, 30, 50, 100, 300, and 500 PSI Gage and Absolute.

Product Features

- Pressure ranges 5 to 500 PSI
- Vacuum resistance
- Excellent overpressure characteristics
- O-ring mounting
- Exceptional chemical resistance
- Solid state, high reliability, stability
- 18mm diaphragm
- High accuracy (max 0.25% linearity and max 0.05% hysteresis)

Electrical Features

- Thermally compensated and passive calibrated (offset) mV output
- Supply current 1 mA (supply voltage 10V)

Applications

Ideal applications for this device are process control and monitoring systems, medical devices, biomedical instruments, hydraulic HVAC controls, ship and marine systems, aircraft and avionics systems, environmental engineering, laboratory and calibration applications, pressure transmitters and tank level systems.

Price

Contact factory for price. Samples are available for product testing.
For additional information, please visit:
<https://www.allsensors.com/products/spm-402-series>

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