

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 first line released is the SPM 401 Series. This new pressure sensor offers design engineers excellent performance in various applications, especially for low pressure and smaller solutions.

Media isolated sensors are designed to operate in hostile environments and yet give 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 design of pressure sensor is at a minimum volume so the accuracy is greatly improved. The SPM 401 silicon pressure sensor is a thermally compensated device and has a millivolt output of up to 180mV at a 1mA supply current. Devices are available in 1.5, 3, 5, 15, 30, 50, and 100 PSI.

Product Features

- Pressure ranges 1.5 to 100 psi
- Vacuum resistance
- Excellent overpressure characteristics
- O-ring mounting
- Excellent chemical resistance
- Solid state, high reliability, stability
- 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 & 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; 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-401-series>

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