

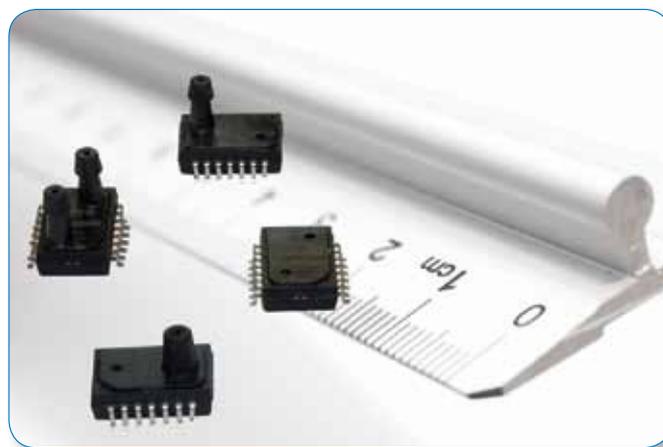


NPA Low Pressure Sensors

The NPA product series is provided in a miniature size as a cost effective solution for applications that require calibrated performance. Packaged in a SOIC14 pin surface mount, the NPA Series is available in Gauge or Differential pressure ranges with analog output, as well as digital output. The sensor is intended for printed circuit board mounting and delivered in tape and reel form to simplify manufacturing handling.

Features

- Surface Mountable
- Differential and Gauge Low Pressure
- 2" & 5" H₂O Pressure Ranges
- Amplified Analog and I²C Output
- Compensated Temperature Range of 0 to 60°C
- Operating Temperature Range of -40 to 125°C
- Total Error Band ±1.5% FSO for 5" H₂O
Total Error Band ±2.5% FSO for 2" H₂O
- 10 PSI Burst Pressure on 2" H₂O Full Scale
- 15 PSI Burst Pressure on 5" H₂O Full Scale



Digital compensation of the signal offset, sensitivity, temperature, and non-linearity is accomplished via a 14-bit internal digital signal processor (DSP) running a correction algorithm.

Applications

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| • Sleep Apnea | • HVAC | • Active Drag Reduction |
| • Ventilation | • Passenger Oxygen Systems | • Process Controls |
| • Anesthesia | • Cabin Climate Control | • Altimeters / Barometers |
| • Delta-Pressure Flow | • Air Filtration Monitoring | • SCBA (Self contained breathing apparatus) |