NPI Series of Media-Isolated Pressure Sensors

The NovaSensor NPI Series features a high stability SenStable® piezoresistive MEMS chip placed in a stainless steel media-isolated package. Ideal for use in hostile environments, the modular design allows for a variety of pressure port modules that are hermetically welded to the sensor header. The sensors monitor pressure in industrial, medical and transportation applications by producing a voltage output that is linearly proportional to the input pressure.

Features

- **Pressure Range:** 2.5 psi (17 kPa) to 5,000 psi (35,000 kPa)
- **High stability and reliability**
- **Gauge, absolute and sealed gauge variants**
- **Stainless Steel 316L package for corrosive media compatibility**
- **HEX Diameter:** 15 mm / 19 mm
- **Current or voltage-driven**
- **Operating Temperature Range:** -40°F to 257°F (-40°C to 125°C)
- **Total Error Band:** ±1% FSO*
- **Outputs:** Analog (mV) or Digital (I2C, coming soon)
- **Available in ported and non-ported versions**
- **Custom configurations and pressure ranges available**

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Typical</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40°F to 257°F (-40°C to 125°C)</td>
<td></td>
</tr>
<tr>
<td>Compensated Temperature Range</td>
<td>32°F to 158°F (0°C to 70°C)</td>
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<tr>
<td>Vibration</td>
<td>10 gRMS (20 to 2000 Hz)</td>
<td></td>
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<tr>
<td>Shock</td>
<td>100 g (11 milliseconds)</td>
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<tr>
<td>Life (Dynamic Pressure Cycle)</td>
<td>10 x 10⁶ cycles</td>
<td></td>
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</table>

Consult individual product datasheets for additional specifications.

Applications

- **Industrial process control**
- **Corrosive fluid and gas measurement**
- **Hydraulic systems and valves**
- **Tank level measurement**
- **Barometric pressure measurement**
- **Ship and marine systems**
- **Aircraft and avionic systems**
- **Medical equipment**

* Total Error Band comprises offset, full scale span, non-linearity, hysteresis, non-repeatability, all thermal effects. Valid for released products.

Links to NPI Product Datasheets:

- NPI-15 Series – [High Pressure Sensors](#)
- NPI-19 Series – [Low Pressure Sensors](#)
- NPI-19 Series – [Medium Pressure Sensors](#)
- NPI-19 Series – [I2C Digital Pressure Sensors](#)

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