



## NPI Series of Media-Isolated Pressure Sensors

The NovaSensor NPI Series features a high stability SenStable<sup>®</sup> 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 (I<sup>2</sup>C, coming soon)
- Available in ported and non-ported versions
- Custom configurations and pressure ranges available

### 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.



### Specifications

<b>Operating Temperature Range</b>	-40°F to 257°F	(-40°C to 125°C)
<b>Compensated Temperature Range</b>	32°F to 158°F	(0°C to 70°C)
<b>Vibration</b>	10 gRMS	(20 to 2000 Hz)
<b>Shock</b>	100 g	(11 milliseconds)
<b>Life (Dynamic Pressure Cycle)</b>	10 x 10 <sup>6</sup> cycles	

Consult individual product datasheets for additional specifications.

Parameter	Typical	Notes
<b>Bridge Impedance</b>	5000 ohm	±20%
<b>Over Pressure</b>	2x	3x (5 and 2.5 psi)
<b>Linearity</b>	0.1 FSO	BFSL

### 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 – [I<sup>2</sup>C Digital Pressure Sensors](#)