NOVA SENSOR

Harsh Media Pressure Sensor

NPR-101



NovaSensor's NPR-101 pressure sensor is a silicon-based MEMS device using "Backside Absolute Pressure" technology designed for harsh media exposure, which eliminates the direct contact of the sensing circuitry with the applied media. The device is coupled with an ASIC to provide a ratiometric output proportional to the applied pressure. Integrated diagnostics included.

Applications

- Transmission fluid pressure sensing
- Oil pressure sensing
- Fuel pressure sensing

Features

- Harsh media compatibility
- High level output
- Small package





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Advanced Sensors

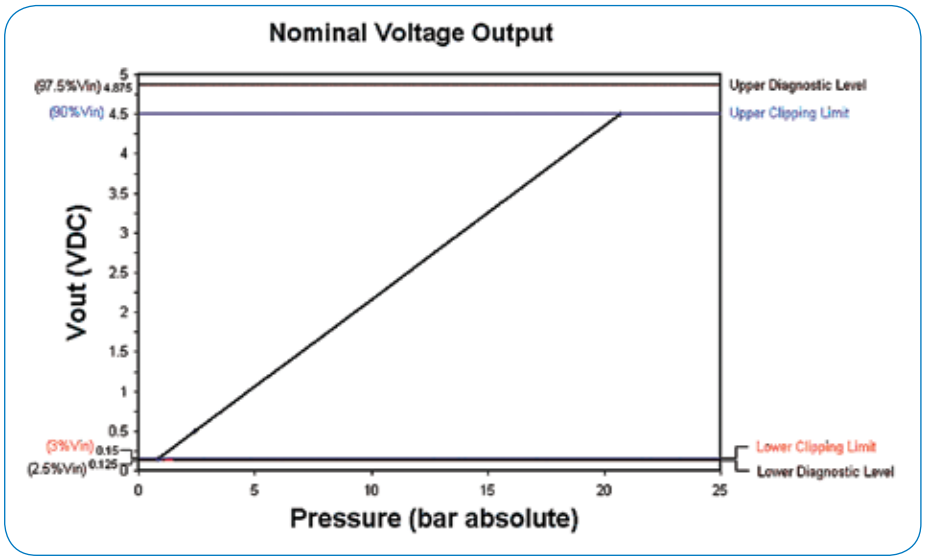
Harsh Media Pressure Sensor Specifications

NPR-101

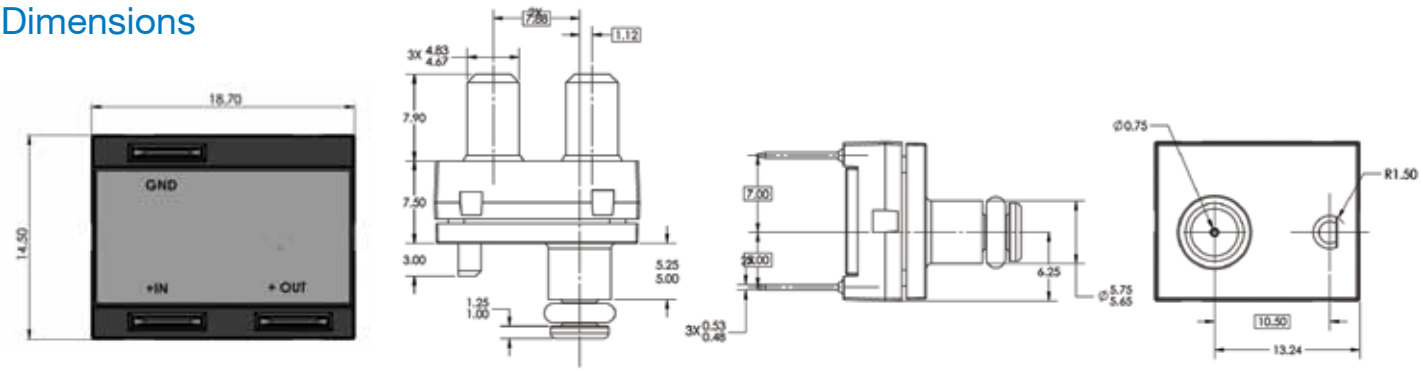
Operating Pressure Range	300 PSIA full scale pressure (20.68 BarA)
Performance	
Total Error band	+/-2.0% FP (-20C to 100C)
	+/-3.0% FP (100C to 140C)
Electrical	
Supply Voltage (Vcc)	4.5 to 5.5 VDC (6.5 VDC MAX)
Supply Current	3 ma
Output Range	10% to 90% of Vcc
Over-Voltage Protection	6.5 VDC MAX
Reverse Voltage Protection	None
Durability	
Cycle Life	1 million cycles
Proof Pressure	1.5 times rated pressure
Burst Pressure	2.5 times rated pressure

Output Curve : NPR-101

Other transfer functions available on request



Dimensions



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www.amphenol-sensors.com

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