



NovaSensor NPH Solid State Low & Medium Pressure Sensors at CDI

NovaSensor NPH Series of Solid State Low Pressure Sensors consist of an integrated circuit silicon sensor chip housed in a standard TO-8 electrical package that is printed circuit board mountable.

The latest techniques in micromachining have been used to ion-implant piezoresistive strain gauges into a wheatstone bridge configuration that is integrally formed on a micromachined silicon diaphragm. As with all NovaSensor silicon sensors, the NPH Series employs SensiDial® processing technology.



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Description

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NovaSensor NPH Series of Solid State Low Pressure Sensors consist of an integrated circuit silicon sensor chip housed in a hermetic electrical package that is printed circuit board mountable.

The latest techniques in micromachining have been used to ion-implant piezoresistive strain gauges into a wheatstone bridge. The bridge is integrally formed on a micromachined silicon diaphragm. As with all NovaSensor silicon sensors, the NPH Series employs advanced processing technology, providing excellent output stability. Constant current excitation to the sensor produces a voltage output proportional to the input pressure.

The user can provide standard signal conditioning circuitry to amplify the 100 mV output signal. The sensor is compatible with corrosive gases and dry air. A laser-trimmed, thick-film resistor network on a hybrid ceramic substrate provides temperature compensation.

Applications:

- Process control, P-to-I converters
- Pneumatic control systems
- HVAC controls
- Biomedical: Infusion pumps, sphygmomanometers, respirators
- Aerospace: Altimeters, barometers, cabin pressure sensors
- Computer peripherals

Features:

- Solid state, high reliability
- Standard TO-8 package suitable for PC board mount
- Low cost, small size
- Available in gauge, absolute, and differential pressure versions
- Media compatible with non-corrosive gases and dry air
- Thermal accuracy FSO 0.5% typical
- Overpressure capability to five times maximum rated pressure
- Three standard ranges: 0 to 10 inH₂O (0 to 25 mbar), 0 to 1 psi (0 to 0.06 bar), and 0 to 5 psi (0 to 0.34 bar)
- Nonlinearity 0.05% FSO typical
- Standard 3/16 in OD pressure port
- Ceramic substrate with temperature compensation resistors

Download Datasheets:

[Download Solid State Medium Pressure Sensors Data Sheet](#)

[Download Solid State Low Pressure Sensors Data Sheet](#)

About NovaSensor, a Division of Amphenol Advanced Sensor

NovaSensor, a Division of Amphenol Advances Sensors (AAS) manufactures MEMS pressure sensors. As a leader in mechanical (MEMS) elements, sensors and advanced packaging solutions, our MEMS pressure sensor line includes high performance families. These include surface mount, hybrid, and media isolated sensors. NovaSensor offerings serve medical, industrial applications. Available in all levels of calibration, from uncalibrated to fully calibrated, amplified analog and digital output. Contact our MEMS line to find a product either off the shelf. Contact CDI's™ applications team to customize a solution to meet your needs.

About Component Distributors, Inc. (CDI)

Component Distributors, Inc. (CDI) is a value-added distributor of high-performance LED, Power, RF & Microwave, Wireless component technologies. CDI distributes globally and provides local application support and customer service across the industry. CDI is a cutting edge power electronics by wrapping application support, development tools and design services around high-performance industry leading manufacturers.

Component Distributors, Inc. (CDI)

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Category

1. Ewave
2. NovaSensor, a Division of Amphenol Advanced Sensor
3. Sensors and Wireless

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