

NovaSensor NPH Solid State Low & Medium Pressure Sensors at CDI

Description







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Buy the NPH Series a

<u>NovaSensor NPH Series</u> of Solid State Low Pressure Sensors consist of an integrated circuit silicon sensor chip house 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 is integrally formed on a micromachined silicon diaphragm. As with all NovaSensor silicon sensors, the NPH Series emprocessing technology, providing excellent output stability. Constant current excitation to the sensor produces a voltage proportional to the input pressure.

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

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) manufacturers MEMS pressure sensors. As a leader mechanical (MEMS) elements, sensors and advanced packaging solutions, our MEMS pressure sensor line includes hig 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 MEMS line to find a product either off the shelf. Contact CDI's applications team to customize a solution to meet you

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

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Category

- Fwave
- 2. NovaSensor, a Division of Amphenol Advanced Sensor
- 3. Sensors and Wireless

Date Created

January 20, 2022

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