All Sensors Corporation
16035 Vineyard Blvd.
Morgan Hill, CA 95037
www.allsensors.com

New High Resolution, Digital Ultra Low Pressure Sensor

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All Sensors Corporation of Morgan Hill, California has announced a brand new low pressure sensor, the **DLHR Series**. This new devices series offers design engineers superior performance over lower pressure ranges of 0.5 to 60 inH2O, compared to the DLH. The DLHR Series provides **higher resolution** than any other fully compensated low pressure sensor currently available on the market. Like our industry leading DLV/DLVR, all error compensation is performed internally by an advanced ASIC so no external calculation is required. The DLHR Series is a low pressure sensor with a high resolution digital output signal that incorporates our ultra stable dual die technology.

This offers a fully customizable, turn-key solution for design engineers looking for digital pressure solutions. Product highlights include either I2C or SPI output interfaces with 16/17/18 bit resolution, and better than 0.25% FSS BFSL accuracy. The DLHR Series utilizes All Sensors’ proprietary CoBeam® Technology, allowing greater sensitivity while reducing package stress and almost eliminating position sensitivity. With the ability to operate at a low, variable supply voltage from 1.68V to 3.6V, the DLHR Series renders itself a power conscious device, well suited for portable applications. This has further implications that the part can operate directly from a battery with excellent performance. Devices are available in 0.5, 1, 2, 5, 10, 20, 30 and 60 inH2O pressure ranges, gage and differential.

**Package Features**
- Miniature package with SIP and DIP lead configurations
- PC board mountable SMT and through hole configurations
- Multiple port options available

**Product and Electrical Features**
- Digital I2C or SPI interface offered as a standard feature
- 16/17/18 bit options available
- No active external components or compensation calculations necessary
- Low and variable supply voltage from 1.68V to 3.6V
- All Sensors’ CoBeam® Technology
- Accuracy better than 0.25% FSS BFSL
- 1% Total error band (maximum)
- Compensated temperature range: 0°C to 70°C or -20°C to 85°C

**Applications**
Ideal applications for this device are; medical devices associated with low pressure, portable devices, battery operated devices, remote sensing, HVAC applications, spirometry, instrumentation, respiratory machines, and industrial controls.

**Price**
Contact factory for price. Samples are available for product testing.

For additional information, please visit:
https://www.allsensors.com/products/dlhr-series

*Contact Information:*
Han Mai - 408 225 4314 tel - hmai@allsensors.com

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