

## All Sensors Corporation

16035 Vineyard Blvd.  
Morgan Hill, CA 95037  
[www.allsensors.com](http://www.allsensors.com)

# New Exceptionally Accurate, High Resolution, Digital Low Pressure Sensor

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All Sensors Corporation of Morgan Hill, California has announced a brand new, low pressure sensor, the **DLLR Series**. This new device series offers design engineers exceptional performance for pressure ranges of 10 and 30 inH<sub>2</sub>O. The DLLR Series features best-in-class Total Error Band and accuracy.

This new product family offers a fully customizable, turn-key solution for design engineers looking for digital pressure solutions requiring exceptional accuracy. Product highlights include automatically selected I<sup>2</sup>C or SPI output interfaces with 16/17/18 bit resolution and typically better than  $\pm 0.05\%$  FSS BFSL Linearity + Hysteresis error. The DLLR Series utilizes All Sensors' proprietary CoBeam<sup>2</sup>™ Technology, allowing for greater sensitivity while reducing package stress and almost eliminating position sensitivity with All Sensors' robust and ultra stable dual die technology. With the ability to operate at a low, variable supply voltage from 1.68V to 3.6V, and an idle power of less than 1  $\mu$ W; the DLLR Series is a good fit for power conscious designs. Given that the part can operate directly from a battery with excellent performance, the product family is well suited for portable applications. Devices are available in 10 and 30 inH<sub>2</sub>O (2488 and 7465 Pa) 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

- Accuracy : Better than  $\pm 0.05\%$  FSS BFSL Linearity + Hysteresis typical
- Digital I<sup>2</sup>C or SPI interface offered as a standard feature
- 16/17/18 bit options available
- No external components required
- Low and variable supply voltage from 1.68V to 3.6V
- All Sensors' CoBeam<sup>2</sup>™ Technology
- Total error band 0.10% typical, Maximum 0.25% and better
- Compensated temperature range: 0°C to 70°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/dllr-series>

Contact Information:

Cynthia Nonnenmacher - 408 225 4314 - [cnonnenmacher@allsensors.com](mailto:cnonnenmacher@allsensors.com)

