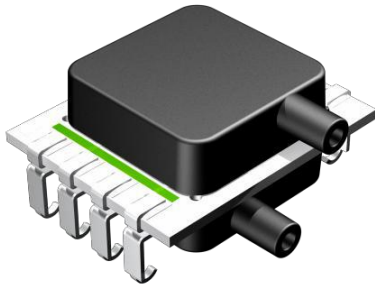


New Exceptionally Accurate, High Resolution, Digital Low Pressure Sensor

All Sensors 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 inH₂O. 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 I²C 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 CoBeam2™ 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 μ 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 inH₂O (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 I²C 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' CoBeam2™ 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.

Datasheets and additional information can be found on <https://www.allsensors.com/products/dllr-series>