

New Product Announcement

Get Three Sensors in One with the Bosch BME280 Environmental Sensor Now at Mouser

April 15, 2015 – [Mouser Electronics](http://www.mouser.com), Inc., the global authorized distributor with the newest semiconductors and electronic components, is now stocking the [BME280 Humidity and Pressure Sensor](#) from [Bosch Sensortec](#). The BME280 combines a digital humidity sensor, pressure sensor, and temperature sensor in one package. This sensor provides an extremely fast response time and high overall accuracy over a wide temperature range.

The [Bosch Sensortec BME280 Humidity and Pressure Sensor](#), available from Mouser Electronics, is an integrated environmental sensor developed specifically for mobile applications where size and power consumption are critical design parameters. The BME280 combines three environmental sensors in a small 2.5mm² package and draws as little as 100nA in sleep mode. The humidity sensor responds quickly and accurately to changes in ambient humidity from zero to 100%. The pressure sensor measures absolute barometric pressure from 300 to 1100hPa with an accuracy of ±1.0hPa with very low noise. The integrated temperature sensor measures ambient temperature from -40 to +85°C within one degree of accuracy. The temperature sensor is also used for temperature compensation of the integrated humidity and pressure sensors.

The BME280 supports three power modes: Sleep, Normal, and Forced. In Sleep mode, no measurements are performed and power consumption is at a minimum. In Normal mode measurements are automated and the device cycles into Sleep mode when no measurements are required. In Forced mode a single measurement is performed according to configured options. The device can be configured by both SPI and I2C interfaces at a 10MHz data rate.

The BME280 targets portable devices such as [medical systems](#), [automotive navigation equipment](#), and [Internet of Things](#).

To learn more, visit: <http://www.mouser.com/new/bosch-sensortec/bosch-bme280/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

About Bosch Sensortec

Bosch Sensortec, a subsidiary of Robert Bosch GmbH, has been providing micro mechanical sensors and application services for the consumer electronics market since 2005. Bosch Sensortec has access to the development and manufacturing competencies of the Bosch Automotive Electronics division which makes for flexible and close cooperation during all project phases. This allows not only focus on new applications, but the ability to quickly respond to special customer requests. Due to its integration in the Bosch Group, Bosch Sensortec is capable of a rapid adaptation of existing sensors in new areas of application.

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