

Highly Precise and Digital: **The SMD500 from Bosch Sensortec – the Smallest Pressure Sensor for Consumer Electronics**

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- ▶ Size of only 5x5x1.6mm³
- ▶ Ultra low power consumption of 3µA on the average

Bosch Sensortec has developed a new pressure sensor which is distinguished by ultra low power consumption and a very small LCC package (Leadless Chip Carrier). With a size of only 5x5x1.6mm³, the SMD500 will be the smallest pressure sensor for consumer electronics available. The SMD500 marks a new generation of high precision digital pressure sensors especially designed for this industry. Samples will be available from August 2006. The new sensor will be presented for the first time at Sensors Expo, taking place in Rosemont/USA from 5-7 June 2006.

The SMD500, as a new family member of a wide range of micromachined pressure sensors from Bosch Sensortec, can be used as both altimeter and barometer. Manufactured using the new APSM technology (Advanced Porous Silicon Membrane), it is much smaller than conventional bulk micromachined sensors.

The piezo-resistive pressure sensor with a monocrystalline membrane comes in a ceramic package. It is thus characterized by high accuracy and linearity. The SMD500 is designed to be connected directly to a microcontroller of a mobile device via the I²C bus. Due to its ultra low power consumption of only 3µA on the average, the SMD500 is addressing the specific needs of consumer applications such as mobile phones, PDAs, outdoor equipment or GPS devices.

About Bosch Sensortec GmbH

Bosch Sensortec, a wholly owned subsidiary of Robert Bosch GmbH, which is the global market leader for automotive sensors, offers micromechanical sensors, application, and foundry services for consumer electronics, medical technology, security systems, and logistics. The company was founded early in 2005 and is headquartered in Kusterdingen, near Reutlingen (Germany).

Bosch has been active in the field of MEMS since 1988 and is one of the pioneers of this technology. Today, a couple of hundreds of engineers of the Bosch Group work in the field of MEMS technology. Bosch offers a broad variety of different sensor types for the automotive industry – ranging from pressure and acceleration sensors to yaw-rate sensors. Annual production at Bosch amounted to more than 100 million MEMS sensors in 2005. To find out more about Bosch Sensortec please visit. www.bosch-sensortec.com.

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The Bosch Group is a leading global manufacturer of automotive and industrial technology, consumer goods, and building technology. In fiscal 2005, some 250,000 associates generated sales of 42 billion euros. Set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering," the Bosch Group today comprises a manufacturing, sales, and after-sales service network of some 270 subsidiaries and more than 12,000 service centers in over 140 countries.

The special ownership structure of the Bosch Group guarantees its financial independence and entrepreneurial freedom. It makes it possible for the company to undertake significant up-front investments in the safeguarding of its future, as well as to do justice to its social responsibility in a manner reflective of the spirit and will of its founder. 92 % of the shares of Robert Bosch GmbH are held by the charitable foundation Robert Bosch Stiftung. The entrepreneurial ownership functions are carried out by Robert Bosch Industrietreuhand KG.

Additional information can be accessed at www.bosch.com.