

Press Release, 10 February 2011

Sensoror announces the SP400, an integrated wireless low-power pressure sensor

The SP400-series is a high accuracy wireless digital absolute pressure sensor. SP400 is a fully calibrated and compensated sensor with an embedded RISC micro controller. It is available in 4 pressure ranges from 150kPa(22psi) to 2000kPa(290psi).

SP400 has 3 customer configurable I/O pins that can support specific tasks tied to the application requirement. The sensor's firmware can be customized to control its measurement cycles and processing of the measured data. The SP400 has a built in RF transmitter and supports communication over 315MHz and 433MHz with adjustable transmitting power. It has a built in LF receiver unit enabling two way communication. In addition to accurate pressure data, the sensor will output its individual serial number, sensor temperature, and supply voltage, along with continuous self-diagnostics data.

All of these features are offered in a small 14 pin SOIC package with optional pressure tube connection and an optional on-chip accelerometer that supports operating temperatures from -40 to 125degC.

The sensor is based on Sensoror's proven and patented bulk micro machined triple stack design with backside media access offering the most stable and media compatible PRT sensor in the industry. The reliability sensor design is proven by more than 300 million installed units and a failure rate of less than 0.2 parts per million.

The sensor is ideal for battery powered applications. It eliminates expensive wiring to the pressure sensors, or a separate design to integrate RF transmitter and microcontrollers. The SP400 sensor will add flexibility, cost savings, and increased reliability to applications where accurate, flexible and wireless pressure measurement solutions are needed.

<http://www.sensoror.com/pressure-products/pressure-sensors/wireless-digital.aspx>

About Sensoror Technologies AS

Sensoror is a global leader in high precision MEMS technology; designing and manufacturing advanced, integrated gyro and pressure sensors for harsh environments. Based on a continuous MEMS activity since 1965, Sensoror pioneered the introduction of MEMS accelerometers and gyros and also became the leading supplier of tire pressure sensors.

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