

Press Release, 24 February 2010

Sensoror announces ultra low power pressure sensor with programmable, embedded μC and optional accelerometer

Sensoror Technologies AS is launching their **SP300-series**, a multipurpose digital absolute pressure sensor – fully calibrated and compensated with programmable, embedded RISC μC and optional accelerometer. Flexible and customer specified communication is via 5 general purpose I/O pins and a 2 channel LF receiver supporting wireless command and data reception, which can be used for configuration and device wake up. Sophisticated features like electronic ID, temperature measurement, supply voltage measurement, diagnostics and an optional 125g on-chip accelerometer are available. A set of ROM library functions simplifies code development. A fully autonomous pressure, acceleration and temperature measurement system is created by adding a battery, an RF transmitter IC and an antenna. Due to the unique ultra low power architecture the sensor is ideal for battery operation. Stand-by current is an astonishing 0.3 μA and a low noise 11-bit measurement requires a minute 4 μAs . The SP300-series is offered in 0.5 to 16bar FS ranges and in a 14 pin plastic SOIC package with optional pressure tube connection.

“Launch of SP300 is a milestone in history of MEMS pressure sensors; capable of operating in the most demanding environments, using a patented bulk micro machined triple stack design with backside media access, and functional over the full -40 to +125°C temperature range with survival even up to +175°C for shorter periods” commented Mr. Carsten Fongen, Sales Manager at Sensoror Technologies. “The exceptional multifunction makes SP300 ideal for applications with distributed points of measurement; system architecture can be realized with a minimum of components and without wiring each unit to a central control; this provides system designers full flexibility and secures the lowest system cost. Due to the extreme low power a tiny coin type battery provides enough energy for years and years of operation” he goes on. SP300 is available in volumes and pricing, without accelerometer and pressure tube, starts at € 18.00 in 1k quantities.

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 to the automotive market and also became the leading supplier of tire pressure sensors.

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