European Sensor Systems S.A. Launches ESCP2-M5
A new MEMS Barometric Capacitive Pressure Sensor with world class resolution

Athens, Greece, – May 1st, 2013, European Sensor Systems S.A. (ESS) an affiliated company of THEON Sensors S.A. (THEON), announces the launch of ESCP2-M5, a MEMS based capacitive barometric pressure sensor with world class resolution, which is the latest addition to the existing range of ESS'/THEON's absolute pressure sensors. The capacitive pressure sensors are underpinned by ESS'/THEON's innovative surface micro-machining SOI technology. The small footprint of the ESCP2-M5 smd mountable package makes it ideal for use in portable devices, smartphones/tablets, altimeters, navigation systems and every other electrical equipment that demands high resolution/accuracy measurement of the barometric pressure.

ESCP2-M5 is a capacitive barometric pressure sensor with an altitude resolution of 10cm with SPI and I2C interface. The sensor includes a high resolution ΔΣ ADC to digitize the signal. The digital output is fully calibrated and temperature compensated based on the internal temperature sensor and the factory calibration coefficients are stored in the embedded memory. Thus the sensor is ready to be installed directly to the end user system without further processing. A low phase noise oscillator is also integrated, eliminating the need of any external components. Different power modes are available enabling low power operation, while the output rate and thus the conversion speed is programmed allowing the end user to customize/optimize the performance. Special functionalities like alarms are also available. The sensor provides a digital high accuracy 32 Bit pressure and temperature output. Raw analog outputs are also available.

“We are offering a fully calibrated and compensated barometric pressure sensor of high resolution and accuracy, ready to be installed to any system without the need for any additional external components” said ESS General Director, Emmanuel Zervakis. “We developed a new generation of capacitive pressure sensors based on the customer needs. Comparing to piezo-resistive implementations, capacitive pressure sensors provide unbeatable long term stability performance, therefore drifts over time are practically eliminated. Moreover, thermal effects are also minimal and they are even more suppressed, as any other common mode effects, by the novel architecture of our sensors. Additionally with capacitive pressure sensors you don’t have to worry any more
for stresses produced by the packaging. **ESCP2-M5** barometric pressure sensor combines all these advantages of capacitive sensors along with world class resolution. It is the ideal component for any application where high accuracy measurement of the barometric pressure is necessary.

ESS/THEON invites customers to visit the company’s booth (Hall 12, Stand 260) at Sensor & Test 2013 in Nürnberg-GERMANY to see the product’s live demonstration and discuss the pressure sensors roadmap with the company’s representatives.

**Notes**

2. European Sensor System S.A. will be exhibiting at the Sensor & Test 2013 exhibition, Hall 12, Stand 260.
3. To arrange an interview with representatives of ESS before or during the show, please contact Emmanuil Zervakis, General Director of ESS, on zervakis@esenssys.com or +30 6932 509 846
4. For further information on European Sensor Systems., please visit www.esenssys.com

**About European Sensor Systems S.A.**

European Sensors Systems S.A. and its affiliated company THEON Sensors S.A., MEMS Business Units specialize in the development of silicon based modules utilizing micro-electronic technologies. Their prime scope of work is to design, develop and produce flexible and customer specific MEMS modules via standard industrial processes, employed for sophisticated control applications used in the Aerospace, Industrial, Medical and other Consumer Goods markets.