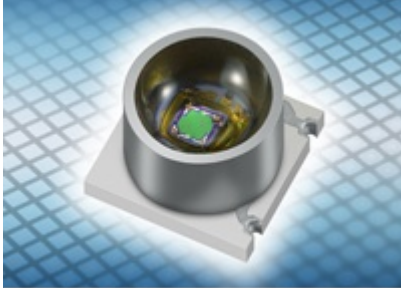


## Products & Technologies



Barometric pressure sensors

May 2009

## Gel-protected sensors with calibrated interfaces

EPCOS has now extended its series of ASB1200 gel-protected barometric pressure sensors to include new types that feature calibrated analog interfaces. And at only 4 x 4 x 2.5 mm<sup>3</sup> they are the world's smallest sensors of their kind. The heart of the new ASB1200V1 and ASB1200VR sensors is a piezoresistive sensor chip, which is mounted in hybrid technology together with the ASIC. Both types offer integrated signal processing. The

ASB1200V1 provides an output voltage of 0 to 1 V, while the ASB1200VR delivers a ratiometric output voltage of 10 to 90 percent of the operating voltage.

The sensors are designed specifically for low voltage applications that require the pressure measurement in moist media. The sensors are optimized for an absolute pressure measurement of 300 to 1200 mbar and operate with a supply voltage of between 2.7 and 5.5 V. Their minimum response time is 1 ms. The sensor's package features a gel-protected stainless steel pressure port, which is suitable for the integration in IP54 applications. The new sensors enable a further miniaturization of barometric applications in devices such as cameras with altimeter functionality, cycling computers, gas analyzers and meters, or HVAC systems in buildings. Samples of the new sensors with calibrated analog interfaces will be available in June 2009. In addition, pressure sensors with digital interfaces are in development.

EPCOS is presenting the ASB1200V1 and ASB1200VR at the SENSOR+TEST exhibition from May 26 to 28, 2009, in Nuremberg/ Germany, hall 12, stand 259, as well as at the Sensors Expo & Conference from June 8 to 10, 2009, in Rosemont, Illinois/ USA.