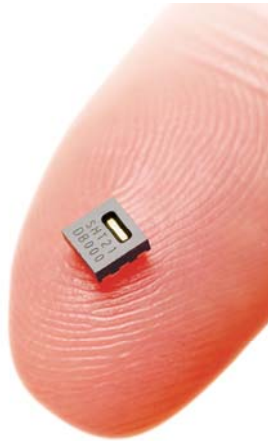


Press Release: Product Announcement

March 2010, Sensirion AG, 8712 Staefa, Switzerland

World's smallest digital humidity sensor: SHT21



SHT21 – size that inspires!

With its new SHT21, Sensirion has presented the smallest digital humidity and temperature sensor to an intrigued audience in 2009. In the meantime the sensor has been characterized and qualified, and thousands of samples have been provided to interested users. The start of serial production is scheduled for April 2010.

The SHT21 consists of a newly designed, sophisticated sensor chip encapsulated in a DFN 3-0 package. With this encapsulation the chip is completely over-molded, except the humidity sensing area. In this way, the components size is reduced to a 3x3-mm footprint with 1.1-mm height. Additionally, over-molding provides excellent protection against aging and ambient impact, such as condensation and harsh environments, and thus yields outstanding long-term stability.

The fully calibrated state of the sensor and its true I²C digital interface ensure an easy application. Analog output modes (such as PWM) are available on request. The digital communication mode enables superb low power consumption: A value in the range of 3 μ W at normal operation is well achieved and it may be lowered further by increasing the measurement interval. Typical sensor accuracy is $\pm 2\%$ RH over 20–80% RH and ± 0.3 °C over 25–42 °C.

The SHT21 has been qualified in accordance with automotive standard AEC-Q100. Furthermore, an extended quality assurance program guarantees low PPM values. A scan path routine enables detailed sensor quality checking, while individual detailed tracking information on the chip can be read out by a simple command. Additionally, the SHT21 is reflow solderable without any degradation of sensor performance. The sensor is provided on tape & reel to enable standard, trouble-free handling. That all makes the SHT21 the perfect choice for high-volume applications.

Free samples of the SHT21 humidity and temperature sensor can be ordered at www.sensirion.com/mysht21.

About Sensirion

The Swiss sensor manufacturer Sensirion AG is a leading international supplier of CMOS-based sensor components and systems. Its range of high-quality products includes humidity and temperature sensors, mass flow meters and controllers, gas and liquid flow sensors, and differential pressure sensors. Sensirion supports its international OEM customers with tailor-made sensor system solutions for a wide variety of applications. Among others, they include analytical instruments, consumer goods, and applications in the medical technology, automotive and HVAC sectors. Sensirion products are distinguished by their use of patented CMOSens[®] technology. This enables customers to benefit from intelligent system integration, including calibration and digital interfaces. Sensirion's competence as a reliable OEM partner is underlined by its quality management system, which was certified in March 2008 in accordance with the ISO/TS 16949 standard.

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