

**Media Release**

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**Adding ultra-high accuracy versions to the SHT4x humidity and temperature sensor**

**Sensirion, the expert in environmental sensing, is launching two new versions of its fourth-generation humidity sensors. The SHT41 and SHT45 offer further improved humidity and temperature accuracy specifications, setting the new market and technology standard. The SHT41 is now available worldwide through Sensirion's distribution network; the SHT45 will follow in Q1/2022. Despite the current shortage of semiconductors, Sensirion is proud to offer extremely compelling lead times.**

In line with Sensirion's industry-proven humidity and temperature sensors, the SHT4x series offers unmatched price-performance ratio. Tape and reel packaging, combined with its suitability for standard SMD assembly processes, make the SHT4x series ideal for high-volume applications.



SHT4x Humidity Sensor  
Source: Sensirion AG

The ultra-high accuracy versions SHT41 and SHT45 feature typical accuracies that have been honed down to  $\Delta RH = \pm 1\% RH$  and  $\Delta T = \pm 0.1^\circ C$ , setting the new market standard across all industries. Like the SHT40, the sensors build on a brand-new and optimized CMOSens® chip that offers ultra-low power consumption. Sensirion's CMOSens® Technology provides a complete sensor system on a single chip, with a fully calibrated digital I<sup>2</sup>C fast mode plus interface. The sensors cover operating ranges from 0 to 100% RH and from -40°C to +125°C. With the extended supply voltage range from 1.08 V to 3.6 V and 400 nA average current, the SHT4x is perfectly suited to mobile and battery-driven applications. The exceptionally small size delivered in a robust DFN housing enables integration into challenging designs while meeting the highest reliability demands, as demonstrated by the JEDEC JESD47 qualification.

“With the SHT41 and SHT45 humidity and temperature sensors, we're completing the portfolio of Sensirion's best-in-class fourth-generation humidity sensors. With our long-established 100% end-of-line testing, we are proud to guarantee our given accuracy specifications for every single device shipped. This has proven fundamental for the trust that our global high-tech customers place in us, whether they come from the medical or the automotive industry. Even during the ongoing semiconductor shortage situation, our Swiss manufacturing site provides exceptionally short lead times, and thereby guarantees the success of our customers' projects,” says Maximilian Eichberger, Director Product Management Humidity and Temperature Sensors at Sensirion.

For more information about Sensirion's SHT4x humidity sensors, please visit: [www.sensirion.com/sht4x](http://www.sensirion.com/sht4x).

**About Sensirion – Experts for Environmental and Flow Sensor Solutions**

Headquartered in Stäfa, Switzerland, Sensirion AG is a leading manufacturer of digital microsensors and systems. Its product range includes gas and liquid flow sensors, differential pressure sensors and environmental sensors for the measurement of humidity and temperature, volatile organic compounds (VOC), carbon dioxide (CO<sub>2</sub>), formaldehyde and particulate matter (PM2.5). An international network with sales offices in the USA, Europe, China, Taiwan, Japan and Korea supplies international customers with standard and custom sensor system solutions for a wide range of applications. Sensirion sensors are commonly used in the medical, industrial and automotive sectors, and in analytical instruments, consumer goods and HVAC products.

One of the hallmark features of Sensirion products is the use of its patented CMOSens® Technology, which allows for intelligent system integration of the sensor element, logic, calibration data and digital interface on a single chip. Sensirion's credentials as a reliable supplier are evident from its loyal customer base, reputation for quality (ISO/TS 16949) and excellent customer pedigree.