

Media Release

9 May 2022, Sensirion AG, 8712 Stäfa, Schweiz

Ultra-high accuracy SHT45 humidity and temperature sensor available now

Sensirion reveals the new high-precision SHT45 humidity sensor as part of Sensirion's 4th-generation humidity sensors – the SHT4x series. The SHT45 offers the highest accuracy for humidity and temperature backed up by Sensirion's many years of sensing technology expertise.

Stäfa, Switzerland – The industry-proven humidity and temperature sensor offers an attractive value for its price on the market and extends the use of high-performance applications. Tape and reel packaging, combined with its suitability for standard SMD assembly processes, make the SHT45 ideal for high-volume applications.



SHT45 humidity sensor
Source: Sensirion AG

The SHT45 builds on a new and optimized CMOSens® chip, offering ultra-low power consumption and high accuracy specifications. Sensirion's CMOSens® Technology provides a complete sensor system on a single chip thanks to a fully calibrated digital I²C fast-mode plus interface. The SHT45 covers operating ranges from 0 to 100 % RH and from -40°C to 125°C with accuracies of ± 1 % RH and $\Delta T = \pm 0.1$ °C, ensuring reliable measurement results thanks to its long-term stability and high precision. With an extended supply voltage range of 1.08 V to 3.6 V and 400 nA average current, the SHT45 is perfectly suited for the most demanding applications. The small size in a robust DFN housing enables integration into challenging designs while meeting the strictest reliability demands, as demonstrated by its JEDEC JESD47 qualification.

"We are continuing to push the boundaries of humidity sensing with the SHT45 through increased accuracy and a wide supply voltage range. Thanks to more than 20 years of experience in developing humidity sensor technology and our end-of-line testing, we can guarantee the accuracy specifications for every part shipped," says Maximilian Eichberger, Director of Humidity and Temperature Sensor Product Management at Sensirion.

Learn more about Sensirion's SHT45 humidity sensor [here](#).

About Sensirion – Experts for Environmental and Flow Sensor Solutions

Sensirion is one of the world's leading developers and manufacturers of sensors and sensor solutions that improve efficiency, health, safety, and comfort. Founded in 1998, Sensirion now employs around 1'000 people at its headquarters in Stäfa, Switzerland and in numerous international subsidiaries. Sensirion sensors can be used to measure a wide range of environmental parameters and flow rates precisely and reliably. The company's aim is to make the world smarter with pioneering sensor technology. As a pioneer in innovation, Sensirion develops solutions for the specific needs of customers and partners from the automotive, industrial, medical technology and consumer electronics markets, as well as high-quality products for cost-efficient mass production. More information and current key figures at www.sensirion.com.