

Press Release

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Sensirion at AHR Expo 2019 in Atlanta (Hall C, Booth 5361) Unveils Innovative New Particulate Matter Sensor

At the AHR Expo 2019 in Atlanta (January 14-16), Sensirion, the expert for environmental and flow sensor solutions, will showcase its latest innovative sensor solution, the SPS30. The contamination-resistant optical particulate matter sensor offers accurate measurements across a more than eight year lifetime.



The SPS30 particulate matter (PM) sensor marks another technological breakthrough in environmental sensing by enabling accurate measurements throughout its lifetime. It uses laser scattering and Sensirion's innovative contamination-resistance technology along with high-quality, long-lasting components to provide accurate measurements throughout its projected lifetime. In addition, Sensirion's advanced algorithms provide superior accuracy for different PM types as well as higher-resolution particle size binning, thus providing new possibilities for the detection of different types of environmental dust and particles. Ultra slim at 41 x 41 x 12 mm³, the sensor fits in compact applications like wall-mounted or compact air quality devices.

"Sensirion's dust resistance and advance binning technologies provide added value to applications in HVAC, air quality monitoring and for air purifiers," said Livio Lattanzio, PhD, Sensirion's product manager of particulate matter sensors. "A sensor that works over the whole lifetime of a device enables good air quality for the end user and increases energy efficiency and sustainable operation."

Traditional optical PM sensors suffer from contamination issues over time, which causes output degradation. Generally, contamination results from continued dust and particle accumulation on the sensor's optical components, namely its photodetector and light source (usually a laser or LED). Devices that integrate traditional PM sensors will stop working correctly after some time, resulting in malfunctions, user complaints, and the need to frequently service the device and/or replace its parts. Sensirion's proprietary contamination-resistance technology combats these common optical PM sensor issues, and, coupled with long-lasting components, provides the SPS30 with unmatched robustness, long-term stability and high accuracy measurements.

Take advantage of the opportunity to visit Sensirion at the upcoming AHR Expo (Hall C, booth 5361) in Atlanta from January 14-16. Learn more about the new SPS30 particulate matter sensor and how Sensirion's latest breakthrough in environmental sensing technology can transform applications across the HVAC space, increase indoor air quality safety, and improve the lives of consumers around the world.

About Sensirion – Experts for Environmental and Flow Sensor Solutions

Sensirion AG, headquartered in Staefa, Switzerland, is a leading manufacturer of digital microsensors and systems. The 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 (CO₂) and particulate matter (PM_{2.5}). An international network with sales offices in the US, Europe, China, Taiwan, Japan and Korea supplies international customers with standard and custom sensor system solutions for a vast range of applications. Sensirion sensors can commonly be found in the medical, industrial and automotive sectors, analytical instruments, consumer goods and HVAC products.

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

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