

Media Release

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Sensirion Inside: Atmocube by ATMO®

Sensirion, the expert in environmental sensing, is proud to announce that the next-generation indoor air quality monitor Atmocube from ATMO® (www.atmo.eco) relies on Sensirion environmental sensors for the measurement of CO₂, formaldehyde, particulate matter, temperature and humidity.

In recent times, air quality has become an increasingly important issue. It affects not only the way people live, travel and eat, but also the manner in which buildings are designed. Modern buildings strive to achieve high energy efficiency to save natural resources used for heating. But more airtight buildings can often mean that there is less air exchange through walls, roofs, windows or cracks, reducing access to fresh air that is essential for a healthy indoor environment. The consequence is that airtight buildings are often too insulated for healthy living, trapping not only heat but also increased levels of air pollutants. Monitoring indoor air quality makes it possible to control it by optimizing ventilation to avoid symptoms that come from high air pollution levels, such as sensory irritation, disrupted cognitive abilities and “sick building syndrome”.

This is where Atmocube from ATMO comes in. Atmocube, a next-generation indoor air quality monitor, tracks a wide range of air pollutants – such as CO₂, formaldehyde, PM₁, PM_{2.5}, PM₁₀ and VOCs – and vital environmental parameters, such as relative humidity, temperature, atmospheric pressure, ambient noise and light levels.

Thanks to Atmocube's hardware design and its linked mobile app, building occupants can easily check the safety of the surrounding environment and be more confident in their health and well-being. Atmocube helps building owners implement their indoor air quality strategies to comply with healthy and green building standards more effectively. The product also helps increase the efficiency of facilities operations, because the device controls HVAC through building management systems. Prior to its official launch, Atmocube's product design was acknowledged by the world's oldest independent design institution, iF International Forum Design GmbH in Hanover. Atmocube won the iF Design Award 2021 in the “Professional Concept” category.

“We've been using Sensirion sensors in multiple products, primarily due to their accuracy, overtime stability and small footprint. Having integrated the newest sensors from the Sensirion portfolio, such as the CO₂ and formaldehyde sensors, along with its traditional sensing solutions into Atmocube, we've created an all-in-one monitoring device with extensive functionality and great performance,” says Alex Pyshkin, R&D Director at ATMO.

Sensirion, the leading expert in environmental sensing, offers innovative sensor solutions that provide detailed and reliable data on key environmental parameters, such as humidity, temperature, carbon dioxide (CO₂), formaldehyde, particulate matter and volatile organic compounds (VOCs). Highest-level design flexibility thanks to compact and miniaturized sensor solutions, reliable, long-term and stable technology and the most accurate measurements – combined with unique expertise – make Sensirion the partner of choice and leading provider of environmental sensor solutions.

“Being able to count ATMO among our customers fills us with pride. Atmocube is an ideal application for our environmental sensors. Sensirion and ATMO are united by the will to enable smart and innovative applications that increase the health, comfort and safety of end users,” says EunJo Lee, Key Account Manager at Sensirion.

Learn more about Atmocube at: <https://atmotube.com/pages/atmocube>

More about Sensirion environmental sensors can be found at: www.sensirion.com

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 (CO₂), formaldehyde and particulate matter (PM_{2.5}). 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.

About ATMO®

ATMO® (formerly known as Atmotube) is a San Francisco-based design, engineering, and manufacturing company developing air quality and environmental monitoring products with vast expertise in environmental sensor technologies, hardware engineering, calibration, and compensation AI algorithms. The company is the developer of Atmotube, a world-first consumer-level wearable air quality tracker. Since its launch, four generations of Atmotube have been introduced to the market and have been sold in more than 78 countries. The device received an award in the “Tech for a Better World” category at CES 2017. ATMO's portfolio includes portable air quality monitors and air quality monitoring systems for residential and commercial buildings.