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AppliedSensor Introduces High-Performance VOC Sensor Component for Integration into Indoor Air Quality Monitoring Systems

Low-Power-Consuming, Long-Life AS-MLV Sensor Component Features Rapid Response to Presence of Volatile Organic Compounds (VOCs)

Warren, New Jersey – [AppliedSensor](#), a designer and manufacturer of chemical sensor components and indoor air quality modules, is introducing the [AS-MLV VOC Sensor Component](#) for integration by OEMs into Indoor Air Quality (IAQ) monitoring systems. The AS-MLV component detects in seconds the presence of volatile organic compounds (VOCs) such as alcohols, aldehydes, ketones, organic acids, amines, and aliphatic and aromatic hydrocarbons.

“A high concentration of VOCs can cause unpleasant odors. It doesn’t matter if the temperature and humidity in the room are adjusted correctly – if the air smells badly, people will complain,” explained Tom Aiken, CEO of AppliedSensor, Inc. “As poor quality air can adversely affect not only the mood of the room’s occupants, but also their productivity and even their health, it’s important to be able to detect VOCs quickly and reliably. Our VOC Sensor Component does just that.”

The AS-MLV VOC Sensor Component consumes a mere 40 milliwatts of power and provides years of reliable and economical operation in environments with an ambient temperature of -40°C to 120°C and relative humidity from five to 95 percent. The component is available on a TO-39 four-pin header with a protective membrane, or as a [complete module](#) for integration into building automation systems.

The VOC Sensor Component’s chips are fabricated using silicon technology. The heater and inter-digital electrode structures are placed on an approximately one-micrometer-thin LPCVD silicon nitride membrane to achieve the lowest possible power consumption. A highly reproducible tin dioxide-based sensitive layer is deposited over the inter-digital electrodes, forming a gas concentration-dependent conductivity.

[AppliedSensor](#) provides chemical sensor solutions for air quality, safety and control. Relying on its 25 years of research and development, the company designs and manufactures chemical sensor systems for a broad range of applications, including [Hydrogen Gas Safety Sensor Modules](#) integrated in BMW and General Motors fuel cell vehicles and [Indoor Air Quality Modules](#) for facilities and vehicles. AppliedSensor operates facilities in the United States, Germany and Sweden. Additional information is available by visiting www.appliedsensor.com or by calling 908-222-1477.

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