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One Device with Eight Sensing Technologies Promises Better Ventilation Strategies and Healthier Buildings

BEAVERTON, Oregon – [Senva Inc.](#), an industry leader in sensor manufacturing, today announces the release of their **TotalSense™ Series indoor environmental and air quality sensor (TotalSense)**, engineered and manufactured in Beaverton, OR.

CEO Kent Holce speaks to the current market demand for their new TotalSense Series, “As COVID-19 vaccines roll out, and building occupancy begins to recover, it puts the focus on indoor air quality (IAQ) for safety and peace of mind. The unique TotalSense Series utilizes eight different technologies to ensure tenant comfort and prove efficacy of air purification and ventilation strategies.”

As alluded to by Holce, many industry professionals and politicians have shifted their focus and budgets towards implementing better filtration and purification methods such as UV lights, HEPA filters, ionizers, and other methods to keep schools and workplaces safe. However, the importance of measuring the effectiveness of these methods is often overlooked. Senva aims to remedy that with the TotalSense, which monitors indoor conditions and provides valuable information to building owners about the effectiveness of their filtration and the need to deliver fresh air. It also has a variety of display options to provide peace of mind to teachers, workers, and occupants.

Additionally, as the only IAQ sensor with integrated passive infrared (PIR) motion detection, it can initiate ventilation upon occupancy, providing air exchanges the *instant* people are present (in addition to monitored elevated CO2 levels). This technology provides a faster trigger for ventilation than traditional methods, allowing for cleaner and safer indoor spaces while still saving energy.

TotalSense’s Eight Technologies for Optimum Indoor Air Quality:

1. **PM_x (Particulate Matter):** Sensors detect airborne bacteria, dust, pollen, and other airborne particulates and can be used to determine general air quality and the effectiveness of filtration. PM_x symbolizes different sizes of particulate, such as PM1.0 which measures the presence of smaller particles such as viruses and bacteria and PM2.5 which are especially dangerous because of their ability to travel deep into the respiratory system.
2. **TVOC (Total Volatile Organic Compounds):** Sensors can detect thousands of VOC’s coming from sources such as paints, glues, cleaners, alcohol, building products, smoke, and myriad other harmful or offensive gases. Monitoring and ventilating to keep levels low minimizes associated short and long-term health effects.
3. **CO₂ (Carbon Dioxide):** Sensors detect human exhalations and are typically used to indicate occupancy in a space to signal building automation systems for fresh air and/or let occupants know to open a window or door.
4. **PIR (Passive Infrared):** A motion detector typically used for lighting control that can also be used to immediately indicate occupancy and deliver fresh air.
5. **RH (Relative Humidity):** Low humidity levels may reduce the spread of COVID-19; using a sensor to monitor and keep levels low may minimize risk.
6. **Ambient Light:** Sensors are used to control lighting.
7. **Temperature:** Sensors are used to maintain comfort levels.
8. **Barometric Pressure:** Sensors are used to maintain accuracy of TVOC and CO2 sensors.

Senva’s Director of Product Management, Nora Knapp, says “We’re really excited about the revolutionary design of the TotalSense Series sensor. It offers an industry-leading modern look with a slim, surface-mount enclosure. With significantly more sensor options and data points, this sensor allows for better control, cleaner air, safer buildings, and more efficient energy management.”

**About Senva:**

[Senva Inc.](http://www.senvainc.com), founded in 2007, is a premier electrical and electronic manufacturer based in Beaverton, Oregon. With a focus on customer-inspired sensors made completely in the USA, Senva is recognized as an industry leader, setting the standard in product innovation and customer service. To learn more about Senva's innovative products, go to <https://www.senvainc.com/en/news> or email sales@senvainc.com.