

## PRESS RELEASE

Superior Sensor Technology  
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### ***Superior Sensor Technology Announces First Dual, Multi-Range Pressure Sensor for Sleep Apnea Devices***

#### ***New Dual Pressure Sensor for Positive Airway Pressure (PAP) Products Offers Better Performance and Cost Advantages over Competing Solutions***

Los Gatos, CA, September 27, 2021 - [Superior Sensor Technology](#) today introduced a new dual low pressure sensor product series for continuous PAP (CPAP), bi-level PAP (BiPAP) and automatic PAP (APAP) products used for sleep apnea and other breathing sleep disorders. With industry leading accuracy and performance, the [CP Series](#) is the industry's first dual, multi-range pressure sensor that integrates a differential pressure sensor and a gage pressure sensor into one solution. This level of integration in a single module will significantly improve the reliability and performance of PAP devices and offer manufacturers a greatly simplified design and manufacturing process.

Sleep apnea devices help people with sleep disorders, characterized by irregular breathing, causing insufficient oxygen to the brain. Due to the increase in the aging population who suffer from sleep disorders, the market size for sleep apnea devices was valued at USD 3.7 billion in 2020 and is anticipated to grow by as much 6.2% CAGR from 2021 to 2028.

"The rapid increase in sleep disorders has put demands on manufacturers to develop cost competitive, technologically advanced sleep apnea products for a geographically diverse, worldwide population," said Jim Finch, CEO and Co-Founder, Superior Sensor Technology. "Our new CP Series offers manufacturers a unique solution to optimize performance, reliability and system cost for this competitive, fast growing market."

Today's advanced PAP device designs include two separate pressure sensors, a differential pressure sensor for air flow measurement and a gage sensor for airway pressure measurement. The first product in the CP Series, the CP201, is a unique, highly integrated, dual sensor, low pressure offering that incorporates a differential pressure sensor supporting four programmable, full-scale pressure ranges from 250 to 2.5k Pa (1 to 10 inH<sub>2</sub>O) and a gage pressure sensor

supporting four programmable, full-scale pressure ranges from 2 to 6k Pa (8 to 24 inH<sub>2</sub>O), with industry leading accuracy within 0.05% of the selected range and Total Error Band typically within 0.15% FSS. The level of integration and accuracy in CP201 offers significant advantages over competing solutions:

- Reduces board space and design complexity, which speeds time to market.
- Decreases the number of components in the design, which improves reliability and reduces performance errors.
- The NimbleSense™ architecture's advanced digital filtering eliminates critical pneumatic noise, which improves the signal to noise ratio of the sensor output.
- Multi-Range™ technology allows the same device to be used in multiple PAP product variations, which streamlines the overall manufacturing process and reduces sensor inventory.
- Optional closed loop control feature reduces loop delays to further improve accuracy.

The CP201 is available in production volumes and can be purchased through Digi-Key Electronics and Mouser Electronics. Unit pricing is based on shipment quantities.

**Superior Sensor Technology** was established with the objective to revolutionize the high performance, cost driven pressure sensor market by developing integrative, highly intelligent solutions for industrial, HVAC and medical applications. The company's technology is based on a breakthrough system-in-a-sensor, proprietary architecture, called NimbleSense™, which significantly improves overall sensor performance while adding exclusive application specific system features. Superior Sensor Technology was founded in 2016 and is based in Los Gatos, CA.

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