

## Press Release: Product Announcement

October 2008, Sensirion AG, 8712 Staefa, Switzerland

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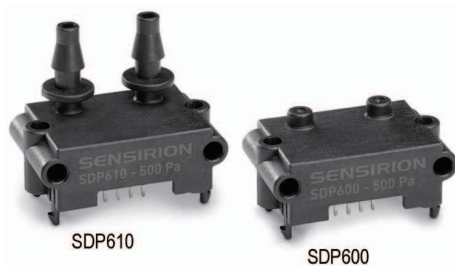
### First digital differential pressure sensor – long-term stable and economical

#### Summary

*With its SDP600 series, Sensirion is bringing the world's first digital dynamic differential pressure sensors on the market. The fully calibrated sensors feature high sensitivity and accuracy even at low pressure differences (less than 10 Pa). The SDP600 and SDP610 provide a digital output and are extremely reliable due to their absence of offset and drift errors. Thanks to their small package size and high level of integration, these innovative sensor products can be supplied at economical prices.*

#### Full text

It is a well-known fact that using a differential pressure sensor can facilitate improved control and monitoring in many application scenarios. However, this requires a sensor that operates with high precision and reliability, and which, ideally, also helps reduce costs. With the newly developed SDP600 and SDP610, Sensirion AG is launching a pair of dynamic differential pressure sensors that can fulfill these demanding requirements.



The SDP600 and SDP610 supply a digital I<sup>2</sup>C output signal with a measuring range of -500 to +500 Pa. Even at low differential pressures (less than 10 Pa), the sensor achieves outstanding accuracy and sensitivity. This performance is based on a dynamic measuring principle in which the differential pressure is determined using intrinsic flow measurement. The SDP600 series sensors are not affected by offset and drift errors and feature an outstanding dynamic pressure range. Intelligent packaging with a correspondingly compact package size allows lower manufacturing costs and thus a competitive price. In addition, the high level of integration may reduce the total electronic component count in the applications these fully calibrated sensors are used with.

The new differential pressure sensors are available in two versions. The SDP600 is intended for a direct threaded connection to a pressure manifold via O-ring sealing, while the SDP610 is designed for a hose connection. The outstanding performance results from the device's sensor chip, which is based on Sensirion's unique, patented CMOSens<sup>®</sup> technology. With this technology, Sensirion has succeeded in completely integrating a thermal sensor element and full signal conditioning circuitry on a single semiconductor chip. Thanks to large-scale fabrication of CMOSens<sup>®</sup> devices, these microchips can be produced in large volume with consistently high quality.

The SDP600 series is especially well suited for use with medical equipment and HVAC applications (heating, ventilation, air conditioning). For example, the sensors can be used to increase the functional scope and energy efficiency of burner controllers and artificial respiration devices. This in turn enhances comfort and leads to significant cost reductions.

Information on the free sampling campaign for interested companies can be found at [www.sensirion.com/sdp6x0](http://www.sensirion.com/sdp6x0).

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#### About Sensirion

Sensirion AG is a rapidly growing high-tech sensor enterprise with headquarters in Staefa near Zurich. The company is a leading international supplier of CMOS-based sensor components and systems. Its range of high-quality products includes humidity and temperature sensors, flow meters and flow controllers for gases and liquids, and differential pressure sensors. Sensirion supports its international OEM customers with tailor-made sensor system solutions for a wide variety of applications. Among others, they include gas flow regulators, building automation modules, and applications in the medical technology, automotive and consumer goods sectors. Sensirion products are distinguished by their use of patented CMOSens<sup>®</sup> technology. This enables customers to benefit from intelligent system integration, including calibration and digital interfaces. Ease of use and modularity help customers to keep their costs down considerably. Sensirion's competence as a reliable OEM partner is underlined by its quality management system, which was certified in March 2008 in accordance with the ISO/TS 16949 standard.

Contact: [www.sensirion.com](http://www.sensirion.com), [info@sensirion.com](mailto:info@sensirion.com), Tel. +41 44 306 40 00, Fax +41 44 306 40 30