

## New Low Cost Differential Pressure Sensor

with CMOSens<sup>®</sup> Technology

*Sensirion presents a new generation of differential pressure sensors for demanding yet cost sensitive HVAC and medical applications.*



Thanks to the fusion of a thermal sensor element with the readout circuitry on a single semiconductor chip (patented CMOSens<sup>®</sup> technology), the SDP1000 / SDP2000 offers a superior performance, such as **no offset**, no hysteresis, better than 0.1 Pa resolution and reproducibility (even below the 10 Pa pressure range), **high accuracy (0.5% full scale)** and a large measurement range at very attractive cost **for OEM applications**.

The device is **fully calibrated**, temperature compensated and **maintenance free**. It shows no sensitivity to the mounting orientation and provides a snap-on system for simple PCB mounting to ease volume production.

Application possibilities include fan/ventilator control, reliable air pressure control, air volume measurement, filter monitoring, burner control and medical applications.

The SDP1000 / SDP2000 generates a **0.25...4 V analog output** at 5 V power supply. In addition to the linear output Sensirion offers also a square root extracted output to simplify air volume handling applications (same price as linear output). Full scale ranges of **0... 125 Pa** and **0...500 Pa** (SDP1000) and **0...3500 Pa** (SDP2000) are available. Other ranges are available on request for OEMs.

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

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### About Sensirion:

Sensirion AG is a high-tech sensor technology company based in Zurich, Switzerland. We are the worldwide leaders in intelligent CMOS-based sensor devices (CMOSens<sup>®</sup> technology) for humidity/temperature sensors as well as mass flow (gases and liquids) and differential pressure sensors (gas). Sensirion OEM customers benefit from intelligent system integration (integrated intelligence including calibration and digital interface), which enables costs to be saved as a result of the simplest system connection (easy-to-use) and modularity.

**Press Contact** (for detailed information as well as editorials/articles):  
Felix L'Orange, Vice President/Head Finance and Corporate Marketing  
Tel. +41 (0)44 306 40 23, Fax. +41 (0)44 306 40 30