# Creating Space for Your Ideas

**With the World's Smallest Flow Sensor**

- Measurement of differential pressure or air flow in bypass
- Best accuracy, repeatability and long-term stability
- Extensive feature set – reflow solderable

www.sensirion.com/sdp3x

SENSIRION
THE SENSOR COMPANY

1-900052-01 / 170405-DP

# Differential Pressure Sensor SDP3x

## FEATURES

- Smallest size (5 mm x 8 mm x 5 mm), opening up new possibilities in application and integration
- Measurement range ± 500 Pa (± 2 in. $H_2O$)
- Excellent accuracy and repeatability, even below 1 Pa
- No zero-offset, no drift
- Calibrated and temperature compensated
- Fast sampling time of 2 kHz at 16 bit resolution
- Digital $I^2C$ and analog output versions
- Reflow solderable, shipped in “Tape and Reel” for “Pick and Place”

## APPLICATIONS

- Medical home care applications
- Portable medical devices
- Consumer products and lifestyle
- Appliances

## EVALUATION KIT

The EK-P4 evaluation kit can be ordered from our catalog distributors or from Sensirion directly.

## CMOSens® TECHNOLOGY

All Sensirion products are characterized by the fusion of the sensor element and digital signal processing on a single CMOS chip. The benefits of CMOSens® are:

- High reliability and long-term stability
- Best signal-to-noise ratio
- Industry-proven technology with a track record of more than 15 years
- Designed for mass production
- High process capability

## FLOW MEASUREMENT IN BYPASS

A differential pressure sensor in a bypass configuration is the ideal and cost-effective choice for measuring air flow with high accuracy, robustness and stability. In a bypass configuration, the differential pressure sensor is placed over a pressure drop element.

For more information, please read our technical white paper “Efficient Flow Measurements in Bypass”.