# Differential pressure Smart-Sensor For Cobalt X

# Smart-Sensor technology

## Maximum reliability and unprecedented ease-of-use

- Smart-Sensor technology stores all calibration information directly in on-board memory, including calibration correction coefficients (a/b or a/b/c), measurement uncertainty after calibration, drift after 1 year, and sensor serial number
- Plug-and-play operation for immediate use with no configuration required
- At recalibration time, swap with a freshly calibrated, ready-to-use sensor without any data loss or down-time
- All-digital technology for maximum consistency and reliability

# Single (1 sensor)

## For cleanrooms and virology laboratory

The single-sensor differential pressure Smart-Sensor measures the difference in pressure between two zones, such as a high-pressure cleanroom or low-pressure virology laboratory and a "regular" room or hallway.



# **Dual** (2 sensors)

## For more than 2 different pressure zones

The dual-sensor differential pressure Smart-Sensor measures the difference in pressure between different pressure zones, such as a cleanroom or virology laboratory, an airlock, and a "regular" room or hallway.



# Single + connector (1 sensor + 1 Binder connector)

### Adds flexibility to also use another type of sensor

This single-sensor differential pressure Smart-Sensor measures the difference in pressure between two zones, such as a high-pressure cleanroom or low-pressure virology laboratory and "regular" room or hallway.

Compatible only with the Cobalt X2 data logger, this sensor also includes an extension cable with a Binder connector to use another type of sensor (such as temperature) at the same time.





# **Specifications**

Differential pressure Smart-Sensors	Name of the state	Wilders Wilders	Times 11
General			
Model	Single (1 sensor)	Dual (2 sensors)	Single + Connector (1 sensor + 1 Binder connector)
Range	-500 to +500 Pa (±5 cm H₂0)		
Compatibility	Cobalt X2, Cobalt X1	Cobalt X2	Cobalt X2
Product reference	SON.PRE.0002	SON.PRE.0003	SON.PRE.0004
Metrology			
Resolution	0.015625 Pa		
Expanded uncertainty	<u>±</u> 4 Pa <sup>(1)</sup>		
Calibration options	ISO/IEC 17025 (COFRAC) accredited Certified (non-accredited) NIST-traceable Recalibration via sensor exchange		
Characteristics			
Sensor type	Smart-Sensor		
Dimensions	Tube(s): Ø4 mm, L = 50 cm Adapter(s): 4-5 mm		
Other			
Supported overpressure	<b>1 bar</b> (100 kPa, 1000 cm H₂O)		
Compatible gases (Calibrated for)	Air — N2 — O2 (Air and N2)		

(1) The values provided for expanded uncertainty are those generally observed by our metrology laboratory following standard calibration for the differential pressure sensor at the following setpoints: 0, 15, 25, and 50 Pa.

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