Neuron Differential Pressure

Neuron Differential Pressure is a wireless sensor that measures differential pressure between two air ports. The sensor is fitted with a magnet for easy installation. Integrated battery ensures up till 10 years of battery life. All measurements are easily accessible from web, app or API.

The sensor transmits data to your nearby Neuron Gateway which then again communicates with the Neuron Cloud. Continuous measurement and instant alarm. Duplex communication enables adjustment of parameters such as measuring frequency.

Alarm levels are easy to set in the app and alerts can be received as push notification, E-mails or SMS. QR-code on the sensor ensures easy and accurate registration in the app.

Typical Applications:

- HVAC
- Air filters
- Fume Cabinets
- Clean Rooms
- Air Flow

Advantages

- **Wireless sensor with integrated battery**
- **Immediate notice in case of anomalies**
- **Quick installation**
- **Operates 10 years on integrated battery**
- **Robust technology for demanding environment**

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Specifications

Part Number	422281
Measuring Range	+/- 500 Pa, -40 - 85ºC
Resolution	0.1 Pa, 0.1ºC
Accuracy	+/- 1.25 Pa @ 25ºC
Overpressure / Burst Pressure	10 / 300 PSI
Measuring Frequency	Every 10 sec.
Report Frequency	Reports every 2 min. Or immediately if trigger for critical data transmission is reached, see below
Trigger for critical data transmission	10 Pa or 5°C change in measurement
Operating Frequency	868 - 870 MHz
Battery Type	Li-SOCl2 (3.6V)
Operating Time*	Up to 10 Years
IP Grade	IP 67
Operating Temperature Range	-40 - 85 ºC
Air port OD	3.5mm
Material	Polyuretan / Neodymium magnet
Dimensions DxH	51x15mm

*Depends on measurement frequency, amount of critical data transmissions and ambient temperature

Sensor comes with 1m silicone tube and 2 pcs of 5mm treaded nozzles