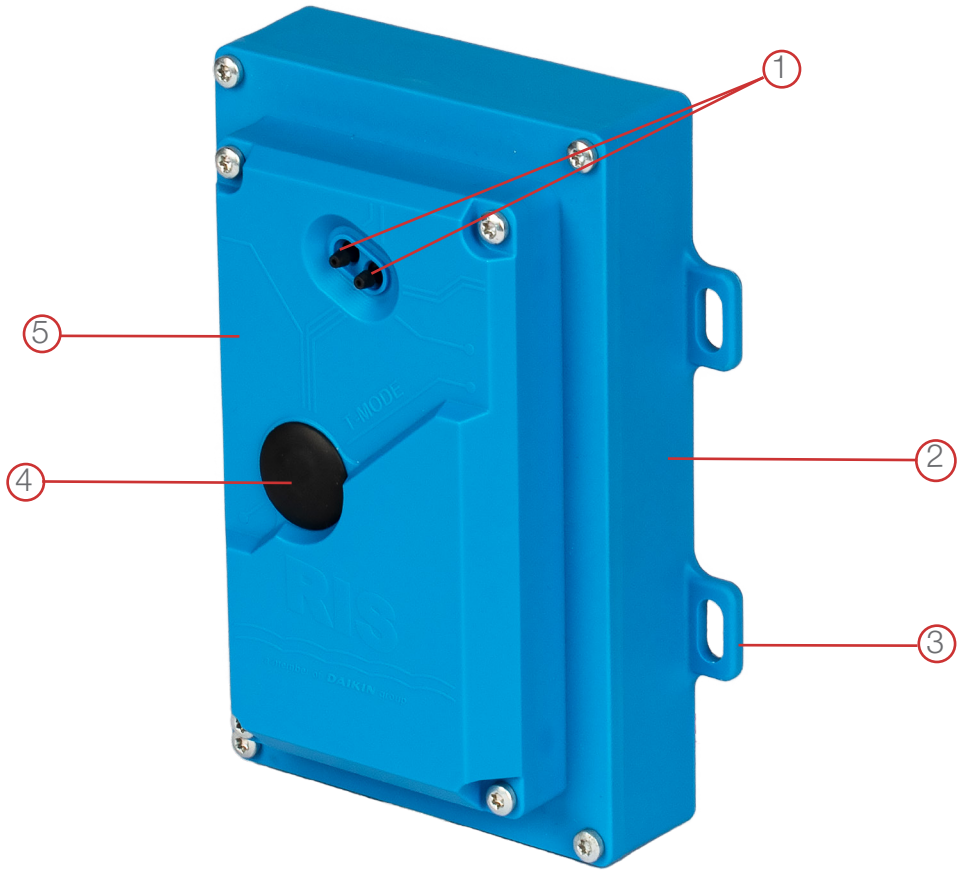
Differential Pressure Sensor

RIS FSX SENSORS – THE PREDICTIVE MAINTENANCE SOLUTION

Sensor description

The sensor is equipped with a narrowband IoT modem, which enables uninterrupted data transmission even in buildings with many obstacles for radio waves or even when installed underground. The sensor is battery-powered and thus completely self-sufficient in combination with narrowband IoT transmission technology. The RIS-FSX differential pressure sensor measures the pressure difference of the different chambers of a ventilation system. For example, by monitoring the pressure difference upstream and downstream of a filter, its utilisation, contamination or even a ruptured filter can be detected.



Particle sensor

1. Vacuum connections
2. Battery case
3. Brackets for sensor attachment
4. T-mode button (function test)
5. Sensor housing cover

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Technical data of the differential pressure sensor (DPS)

Connect the differential pressure sensor (DPS) bypass to an existing sensor or install it at its own measuring point. Please contact the manufacturer for more information on the assembly location and connection of the sensor.

Basic data

Information	Value (unit)
Height	120 mm
Width	70 mm
Depth	30 mm
Operating temperature	-30 ~ +70 °C
Transmitting power	+14 dBm
Receive level	164 dB
Start-up time	≤1 min (≤15 min. for full measuring accuracy)
Weight incl. battery	180 ±0.2 g
Housing material	Durethan B30S

Operating data/conditions

Information	Value (unit)
Working area	±5 inH2O 1,244.20 Pa
Test pressure	200 inH2O 49.77 kPa
Bursting pressure	300 inH2O 74.65 kPa
Protection class	IP44

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