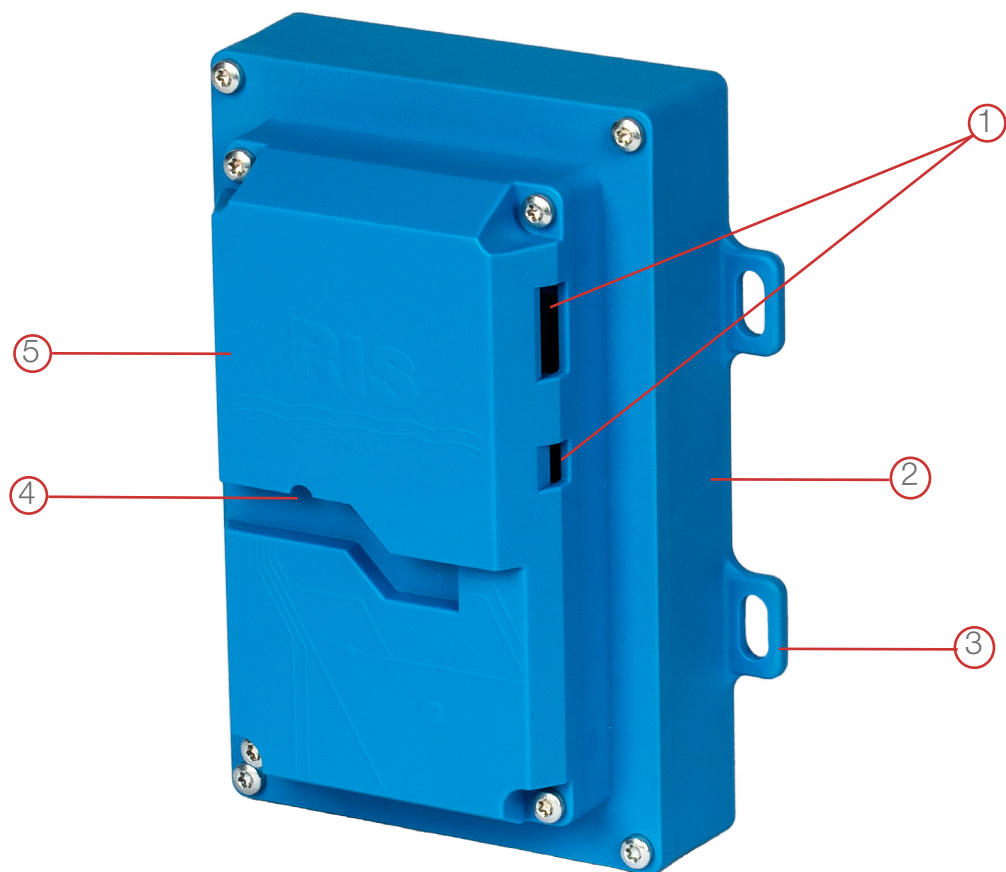


Particle Sensor

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 fine dust sensor records the fine dust concentration in $\mu\text{g}/\text{m}^3$ for different particle sizes.



Particle sensor

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

Particle Sensor

Technical data of the particle sensor (PS)

Position the particle sensor (PS) at its assembly location so that the lateral measuring openings point in the opposite direction to the flow. 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)
Fine dust concentration	PM1.0, PM2.5, PM4 & PM10
Particle count	0.3 µm, 0.5 µm, 1.0 µm, 2.5 µm, 5.0 µm, 10.0 µm (in 100 ml air), PM0.5, PM1.0, PM2.5, PM4 & PM10
Service life	8 years with continuous operation 24h/day

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