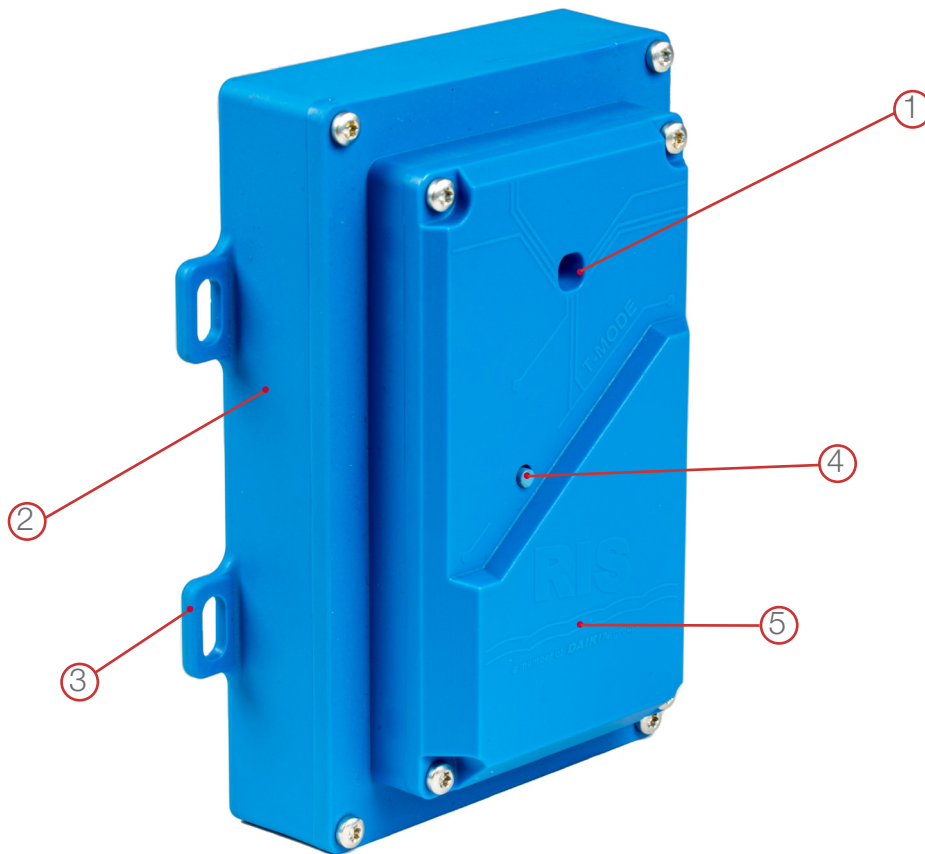


Environmental Sensor

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 environmental sensor measures atmospheric air pressure, relative humidity and ambient temperature in one measuring cycle and can thus be used to monitor rooms with strictly controlled atmospheric properties (e.g. clean rooms or greenhouses).



Particle sensor

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

Environmental Sensor

Technical data of the voltage control sensor (DCS)

The environmental sensor (ES) measures ambient temperature, atmospheric pressure and humidity. Please contact the manufacturer for more information on the assembly location and connection of the sensor. 492

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)
IAQ resolution index	1
Air pressure resolution	0.0018 hPa
Humidity resolution	0.008 % RH
Temperature resolution	0.01 °C
IAQ index accuracy	±15 and ±15 % of the value
Air pressure accuracy	±0.12 hPa (700 - 900 hPa at 25-40 °C), ±0.6 hPa (entire measuring range)
Humidity accuracy	±3 % RH (20 - 80 % RH at 25 °C)
Temperature accuracy	±0.5 °C (at 25 °C), ±1.0 °C (0 - 65 °C)

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