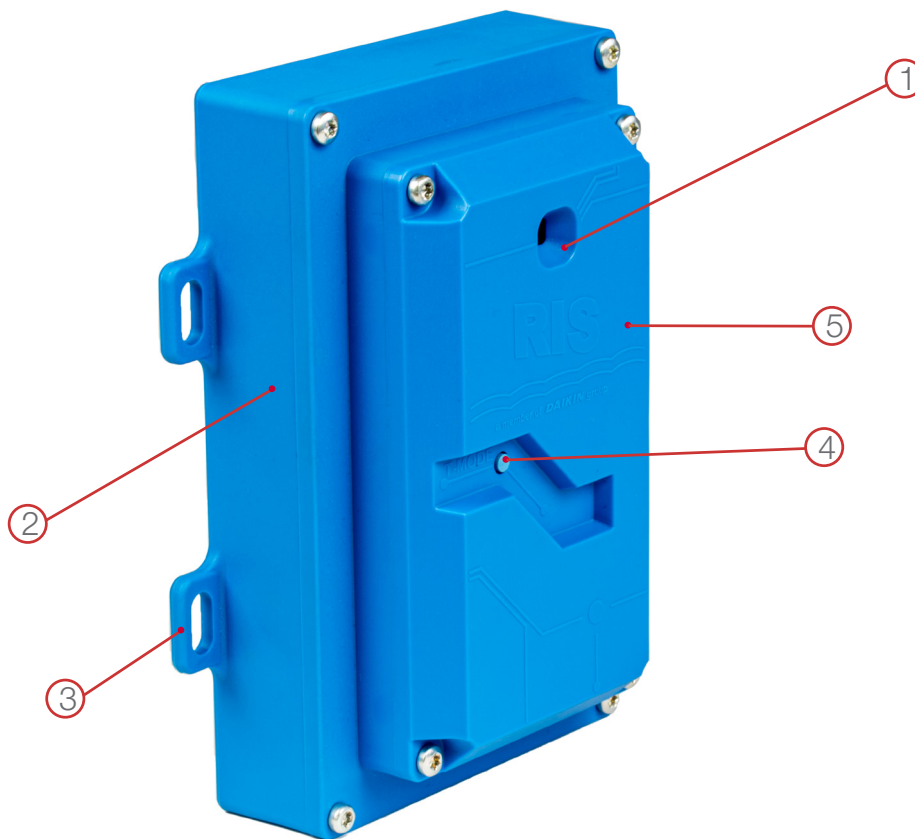


Thermal Imaging Sensor

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 thermal imaging sensor can detect and transmit temperatures between -10 °C and 450 °C with its integrated thermal imaging camera.



Particle sensor

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

Thermal Imaging Sensor

Technical data of the thermal imaging sensor (DPS)

During the thermal imaging sensor (TIS) assembly, make sure that there are no other objects between the one to be measured and the sensor. 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)
Resolution	80 x 60
Frame rate	8.6 Hz (high contrast image); 4.5 Hz (temperature image)
Depth of sharpness	10 cm to infinity
Thermal sensitivity	<50 mK (0.5 °C)
Radiometric accuracy	±5 °C or 5 % (typical)
Measuring range	Temperatures between -10 °C up to 450 °C with a resolution of 80 x 60 pixels

AAF International
European Headquarters
Odenwaldstrasse 4, 64646 Heppenheim
Tel: +49 (0)6252 69977-0
aafeurope.com

RIS Facility Management GmbH
Erlen 4, 75031 Eppingen, Germany
+49 7262 / 208815

RIS-BG Environmental GmbH
Kelterplatz 10, 71549 Auenwald, Germany
+49 7191 / 903 1020
www.ris-group.de



Specifications and performance data contain average values within existing production specification tolerances and are subject to change without prior notice. AAF explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this information.

©2025 AAF International and its affiliated companies.
SENS_1303_EN_042025