

Multi Sensor

Product Overview

Features

The iMune® Multi Sensor integrates dedicated sensors for temperature, humidity, illumination, acceleration and magnet contact. Applications are wall-mounted or equipment-mounted sensor solutions for the measurement of temperature, humidity, illumination or acceleration / orientation.

The device utilises an integrated solar cell to generate the required energy based on available ambient lighting. Under typical indoor lighting scenarios (200 lux for 6 hours per day) it operates fully self-supplied. For use cases with insufficient available light, it is possible to mount a dedicated backup battery.

An integrated NFC interface is implemented, which can be used for device configuration and device commissioning. In addition, it contains an LRN button that can be used for simple commissioning tasks.

Part Number

IMENO-MUL-SENS

www.istl.com

iDrive® products are covered by IST's worldwide patent portfolio. For more information please refer to www.istl.com



Specifications

Electrical

Indoor light energy harvesting
Supplemental battery (CR1632).
Sustaining charge time: 200 lux for 6 hours per day
RF Frequency: EnOcean 868.3 MHz
Transmission range: typ. 200 m free field / 30 m indoor environment

Measurement

Temperature Measurement Range / Accuracy:
-20 °C ... +60 °C / +/- 0.3 K
Humidity Measurement Range / Accuracy:
0 ... 100 % R.H. / +/- 3% R.H.
Illumination Measurement Range / Accuracy:
0 ... 65000 Lux / +/-10 %
Acceleration Measurement Range / Accuracy:
+/- 2 g / +/- 0.03 g
Acceleration Wake Threshold:
0.03 g (default, configurable via NFC)

Mechanical

ABS or PC, White colour
Dimensions: 49 x 49x 13mm

Wireless Multiple Sensor Device
Temperature / Humidity / Illumination / Acceleration / Magnet