RF-LW-THLC-S

LoRaWAN Solar Air Quality Sensor



Features & Benefits

- Solar-powered & battery free - maintenance free solution
- LUX, Temperature and Humidity sensor
- NDIR Co_2 sensor
- 1.54" e-ink display
- FUOTA
- ABC calibration for accurate Co_2 measurements
- Simple and fast installation

Technical Overview

This clever sensor is equipped with temperature and humidity, LUX and NDIR Co_2 sensor. Featuring a 1.54" e-link screen the device displays the current levels of Co_2 as well as historical trends. The data is transmitted by the LoRaWAN connectivity to a gateway which converts it to BACnet or Modbus to be utilised in any Building Management System to control demand-based ventilation.

Technical Specification

Radio output type	LoRaWAN 1.0.3
Frequency Range	EU863–870; Other LoRaWAN regional settings available upon request
Security	End-to-End encryption (AES-CTR)
Power Supply	Solar-powered Lithium-ion capacitor (LIC) AND/OR USB-C
Expected Battery Life in the Dark	14 days
Housing colour	White
Dimensions	122mm x 58mm x 22mm
Temperature Accuracy	±0.2 - ±0.7°C
Temperature Resolution	0.1°C
Humidity Accuracy	±3% r.H.
Humidity Resolution	±2
Co_2 accuracy	±(30ppm +3% of reading)
CO2 Range	0-5000ppm
Operating Humidity	0-80% RH (non-condensing)
Operating Temperature	0°- +50°C
LUX Accuracy	±10%
LUX Range	0-10,000 LUX

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Related Product Codes

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