

Features & Benefits



- Built in USB port for configuration
- Battery or externally powered
- Multiple sensor options
- Long-range communication via LoRaWAN wireless technology
- Integration with any BMS through BACnet or Modbus through gateway

Technical Overview

A range of room sensing devices to measure all manner of parameters to ensure indoor air quality. From Temperature & RH, VOC's, Barometric Pressure, PIR, Light Level to Sound, we have it covered in these devices. They communicate via LoRaWAN, a wireless communication technology dedicated to long distance and low power consumption. Compared with other communication methods, LoRa spread spectrum modulation method greatly increases communication distance.

Technical Specification

Radio output type	LoRaWAN
Battery Life	> 3 years
Output range Barometric Pressures	Accuracy: $\pm 0.12\text{hPa}$ (equivalent to $\pm 1\text{m}$ in altitude) Range (with full accuracy): 300 – 1100hPa Resolution: 0.18Pa
Output range humidity	Accuracy: $\pm 2\%$ (typical) Repeatability: $\pm 0.1\%$ Response time: 15s
Output range temperature	Accuracy: $\pm 0.2^\circ\text{C}$ (typical) Repeatability: $\pm 0.1^\circ\text{C}$ Conversion time: 6.35ms
Security	AES 128 encryption
Output range VOC's	IAQ Index 0 to 500 (see below) TVOC level (ppm) Variability $\pm 15\%$ (typical) Response time: (tr33-63%) 1 s
Housing colour	White
Dimensions	80mm x 80mm x 26mm
Housing Material	ABS UL 94 V0
Optional permanent supply	Via built in Micro-USB
Operating RH	0-95%RH, Non Condensing
Battery	Up to 2 x Lithium (Li-SOCl ₂) AA-size
Operating Temperature	-10 – 60°C

Compliance	Pre-certified radio regulatory approvals: 868 & 915 MHz spectrum CE, FCC RoHS
Country of origin	UK

Related Product Codes

RF-LW-THLVBCM-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure, CO2, Motion (PIR)
RF-LW-THLVBCMS-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure CO2, Motion (PIR), Sound (dBA)
RF-LW-THLVBC-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure, CO2
RF-LW-THLVBCS-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure, CO2, Sound (dBA)
RF-LW-THLVBMS-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure, Motion(PIR), Sound (dBA)
RF-LW-THLVBPM-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressures, Motion (PIR)
RF-LW-THLVBS-S	Space mounted Temperature, Humidity, Light Level (LUX), VOC's, Barometric Pressure, Sound (dBA)
RF-LW-THVB-S	Space mounted Temperature, Humidity, VOC's, Barometric Pressure