RF-LW-PIR

LoRaWAN Occupancy Sensor



Features & Benefits

- PIR sensor
- LUX sensor
- Temperature and Humidity sensor
- Ultra low power consumption
- Sends message on occupancy
- Available in black subject to an MOQ

Technical Overview

The Sontay LoRaWAN RF-LW-PIR is a compact, standalone sensor powered by two AA batteries, providing a battery life of up to 15 years under the default configuration. The device incorporates a PIR (occupancy) sensor alongside integrated temperature, humidity, and ambient light (lux) sensors. Designed for use with LoRaWAN networks, the RF-LW-PIR is ideal for a wide range of smart building and energy management applications. Occupancy and environmental data can be used within Building Management Systems (BMS) to enable demand-based ventilation, lighting control, and other energy-saving strategies.

Technical Specification

Power Supply	2x AA batteries (each 1.5Vdc)
Operating Voltage	3.0Vdc
Wireless communication	LoRaWAN 1.0.3
RF transmit power	14dB
LoRaWAN device type	Class A End-device
Supported LoRaWAN features	OTAA, ADA, Adaptive channels setup
PIR View of angle	X=120° Y=120°
Temperature accuracy	±0.2 to 0.3°C
Humidity accuracy	±3% RH
LUX Range	0 to 65530 lux
LUX accuracy	±10%
Operating temperature	0 to 60°C
Humidity	0 to 95% RH (non-condensing)
Housing Material	PC/ABS
Weight	34g
Dimensions	57.5 x 57.5 x 21.7mm

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Note: for all gas sensors, None of our devices are approved for use in life safety applications. This document is uncontrolled if printed. Generated on 26/08/26

Related Product Codes

RF-LW-PIR	Wireless LoRaWAN occupancy detector

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