

LMHT-1ZBS Light Detector with Temperature and Humidity Sensor

Increased Energy Efficiency, Intelligent Environment Sensing



The LMHT-1ZBS is a wireless ZigBee ambient light, temperature and humidity sensor that measures and reports variations in light intensity, temperature and humidity regularly. The device enables home automation and security systems to dim or switch on/off electric lighting in response to changing daylight availability so as to adjust brightness to an optimum level and reduce energy consumption. It can also be deployed in home automation and security networks to control the on/off status of devices and appliances based on ambient light levels. It provides the best way to monitor home environment and creating comfortable living environment.

The LMHT-1ZBS features a spectral response mimicking the human eye's perception of ambient light and incorporates IR and UV blocking capabilities. The sensor is an essential component of daylight harvesting solutions as it can effectively balance natural and artificial lighting in buildings according to daytime or evening conditions.

The LMHT-1ZBS reports and transmits temperature and humidity condition, providing timely and actual indoor environment conditions.

Compatible with any ZigBee products supporting the ZigBee Pro HA 1.2 profile, the LMHT-1ZBS can be flexibly integrated into new or existing ZigBee systems.

- Controls the on/off status of lights and appliances based on lighting, temperature, and humidity conditions
- Spectral response mimics the human eye's perception of light
- Monitors visible light sources with built-in temperature and humidity sensor
- Compatible with other manufacturers' ZigBee products

Features

- Measures and reports variations in light intensity regularly
- Detects temperature from -10°C to 50°C
- Humidity range from 0 to 100% RH
- Periodic transmissions at intervals of 10 minutes or when temperature changes +/- 2°C, humidity changes to 10%RH
- Enables home automation and security systems to turn on/off lights and appliances according to ambient light levels
- Incorporates IR and UV blocking capabilities
- Regular supervisory signals ensure the device's proper operation
- Adopts a high-power ZigBee module
- Low power consumption
- Low battery detection
- Easy installation
- Compatible with other manufacturers' ZigBee products
- CE compliance

Specifications

Battery type	CR123A 3V lithium battery x 1
Battery life	2 years
Communications protocol	ZigBee Pro HA 1.2
Frequency	2.4 GHz band
Receiver sensitivity	-101 dBm
Operating temperature	-10°C to +50°C
Operating humidity	Up to 85% non-condensing
Dimensions	73.93mm x 45.8mm x 22mm

*Battery life varies by use and configuration.