Optergy Air

Optergy Air Temperature & Humidity Multi Wireless Sensor (BW-TH-M)

The Optergy Air wireless temperature and humidity multi wall sensor detects air and humidity metrics for use in indoor environments. Its long-life battery ensures reliable use for up to 5-10 years.

Temperature | Humidity

OVERVIEW

Optergy Air's wireless capabilities provides a simple connection to any building for monitoring & control. Its sophisticated and sleek design achieves best-in-class accurate temperature readings and is easy to install, enabling building owners to quickly realize the benefits of smart buildings.

Up to seven BW-TH-M wireless sensors can be connected to one BG-1000-M transceiver

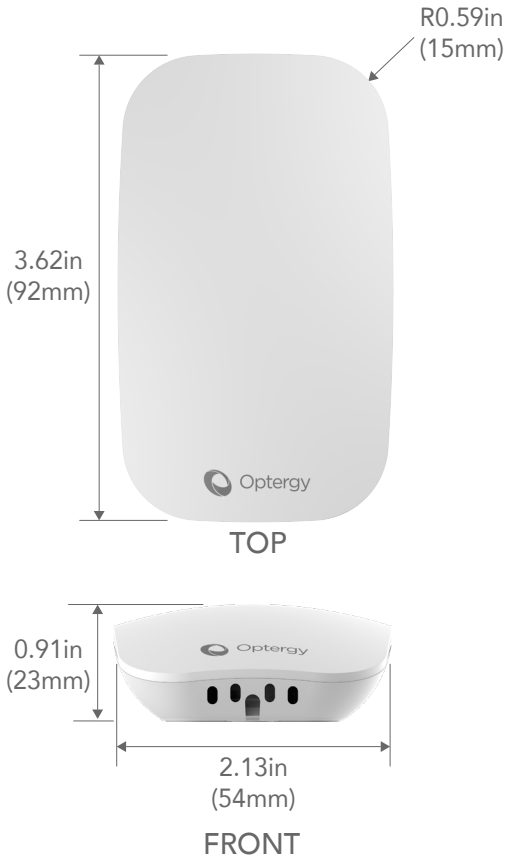
Quick & Easy Installation

Long-lasting Battery Powered

HARDWARE SPECIFICATIONS

Sensing Technology	Semiconductor based sensor - digital humidity sensor with built-in temperature sensor
Temperature Accuracy	± 0.36°F (± 0.2°C) (typical)
Temperature Resolution	14 bits
Relative Humidity Accuracy	± 2% (typical)
Relative Humidity Resolution	11 bits
Battery Life	> 5 years (low battery indicator)
Data Interval	5 seconds (temperature & humidity)
Battery Type	2 x 1.5V alkaline (AA)
Radio Frequency	2.4 GHz
Working Voltage	3.3V
Working Current	Average < 1mA (BLE)
Standby Current	< 3uA
Scope of Application	Indoor use
Detection Range	Ambient temperature -40°F to 140°F (-40°C to 60°C) and humidity 0 to 95% (without condensation)
Working Temperature	-4°F to 140°F (-20°C to 60°C)
Transmission Distance	up to 65 feet indoors (20 meters) up to 98 feet outdoors (30 meters)
Dimensions	W 3.7in (95mm) x L 2.2in (55mm) x H 1in (25mm)
Weight	0.13 pounds (60 grams)
Model Number	BW-TH-M (Temperature & Humidity Multi Wireless Sensor)
Ratings	CE FC
Country of Origin	Australia

DIMENSIONS



FCC & CE: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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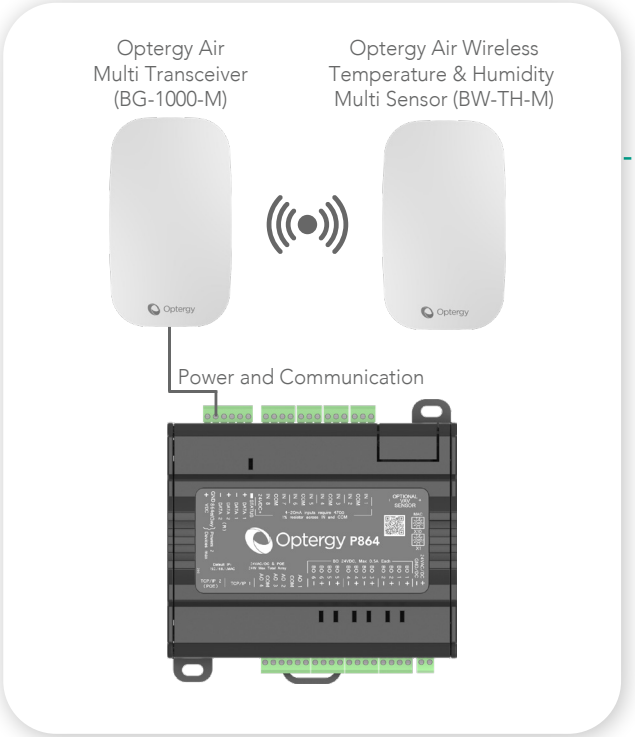

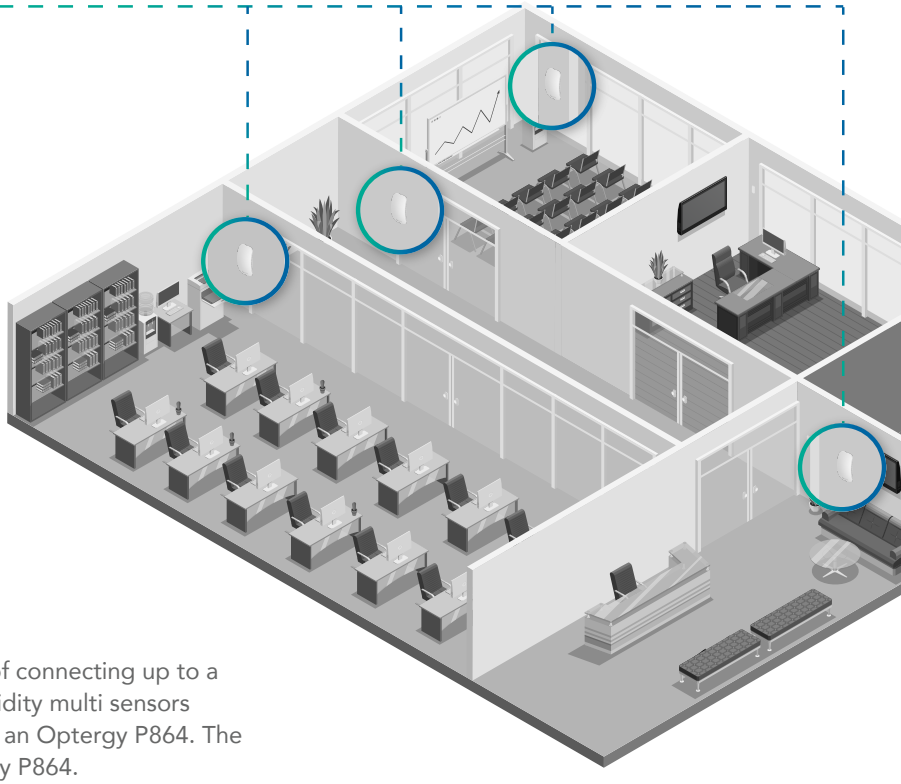

One Optergy Air multi transceiver (BG-1000-M) is capable of connecting up to a maximum seven wireless Optergy Air temperature and humidity multi sensors (BW-TH-M). The BW-TH-M uses a BG-1000-M to connect to an Optergy P864. The BW-TH-M datapoints then belong to the connected Optergy P864.

View the BW-TH-M Installation Guide >

BACNET POINTS

The sensor points (temperature & humidity) are instantiated by the Optergy P864. This means that the BACnet values will be what the device instance is of the Optergy P864 which will have reserved points for the wireless sensors. These points include:

- Temperature Value (Deg F or Deg C)
- Humidity Value (%rH)
- Battery Level
- Low Battery Level Warning
- Sensor Online
- Sensor Detected

ACCESSORIES (BY OTHERS)

AA Batteries (1.5V)

The BW-TH-M uses 2 AA batteries (not included). We suggest to use a high quality leak proof alkaline batteries. The product will work with regular, good quality alkaline batteries but the best performance is achieved by using good quality lithium batteries.

Rechargeable batteries are not suggested due to their slightly lower voltage and since the life expectancy is so long they may not make sense economically.

BW-TH-M-DSRev1.0 © 2023 Optergy All specifications are subject to change without notice.

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