

Optergy Air Touch Wireless Interface Sensor (BW-INT-M)

The Optergy Air Touch Wireless Interface Sensor (BW-INT-M) is an advanced multifunctional device within the Optergy Air series, engineered to enhance zone control with adjustable setpoints. Equipped with integrated temperature and humidity sensors, it also displays CO2 and pressure data from networked sensors. The Optergy Air Touch seamlessly connects to the Optergy Air Transceiver (BG-1000-M), supporting up to seven sensors. With a user-friendly interface and a reliable five-year battery life powered by three 3.6V lithium batteries (not included), it ensures efficient operation and minimal maintenance.



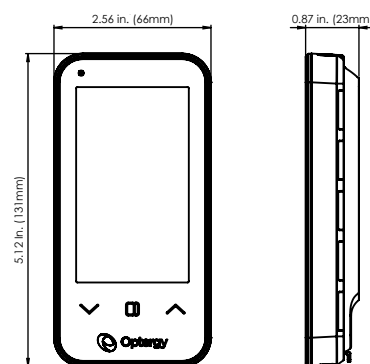
OVERVIEW

Multi-sensor Connectivity	A single (1) BG-1000-M transceiver can connect with up to seven (7) BW-INT-M sensors or a mix from the Optergy Air range.
Quick & Easy Installation	As a wireless sensor, there are no power or communication cables to run.
Long-lasting Battery Powered	The sensor operates on three (3) AA lithium batteries, ensuring at least 5 years of service. Battery status is displayed in the Optergy ecosystem for timely replacement.
No hidden fees	No special software license needed to operate.

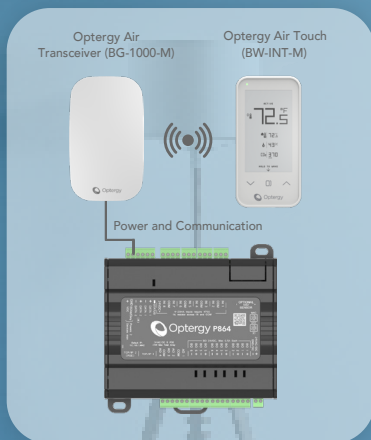
HARDWARE SPECIFICATIONS

Sensing Technology	Semiconductor based sensor - digital humidity and temperature sensor
Temperature Accuracy	$\pm 0.36^{\circ}\text{F} / \pm 0.2^{\circ}\text{C}$ (typical)
Temperature Resolution	$< 0.18^{\circ}\text{F} / < 0.1^{\circ}\text{C}$
Relative Humidity Accuracy	$\pm 2\%$ (typical)
Relative Humidity Resolution	$< 0.2\%\text{RM}$
Battery Life	> 5 years (low battery indicator)
Data Interval	1 minute
Battery Type	AA 3x3.6V lithium battery
Display Type	Black, White
Display Size	3.7 in. (94 mm)
Screen Resolution	416 x 240
User Interface Interaction	Capacitive touch buttons
Radio Frequency	2.4GHz
Communication Protocol	BACnet
Standby Current	$< 50\mu\text{A}$
Scope of Application	Indoor use
Detection Range	Ambient temperature -4°F to 140°F (-20°C to 60°C) and humidity 0 to 95% (without condensation)
Working Temperature	32°F to $140^{\circ}\text{F} / 0^{\circ}\text{C}$ to 60°C
Transmission Distance	Up to 100 feet / 30 meters indoors
Dimensions	W 2.56 in. (66 mm) x L 5.12 in. (131 mm) x H 0.87 in. (23 mm)
Weight Without Batteries	0.26 pounds (120 grams)
Model Number	BW-INT-M

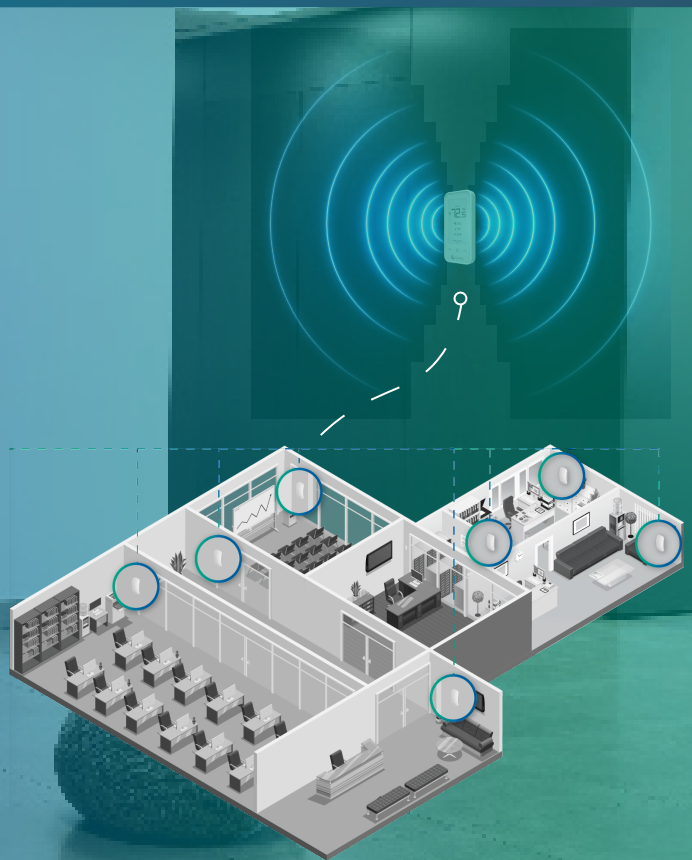
DIMENSIONS



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.



The Optergy Air Touch Wireless Interface Sensor (BW-INT-M) pairs with the Optergy Air Transceiver (BG-1000-M). Up to seven (7) Optergy BW-INT-M interface sensors can be connected to one Optergy Air Transceiver (BG-1000-M).



When used in conjunction with the P864 and firmware version 6.3.0 or later, the Optergy Air Touch Wireless Interface Sensor (BW-INT-M) will transmit space temperature, humidity values, temperature set point and timer request to the BACnet system. The data points for these values are associated with the connected device. The following BACnet points are included:

BACNET POINTS

The sensor points (temperature & humidity level) are instantiated by the Optergy Edge Devices. These points are reserved for wireless sensors and will have BACnet values corresponding to the device instance of the Optergy Edge Devices. The reserved points include:

- Temperature Value (Deg °F or Deg °C)
- Humidity Value (%rH)
- Battery Level
- Low Battery Level Warning
- Sensor Online
- Sensor Paired
- Building state
- Thermostat state
- Timer requested
- Timer Set point
- Timer remaining
- Temperature Set Point
- Temperatures Set Point max-min
- Additional Display Option for External Data (CO₂)

ACCESSORIES (NOT INCLUDED)

AA Batteries (3.6V)

The Optergy Air Touch Wireless Interface Sensor (BW-INT-M) device requires three (3) AA batteries (not included). We recommend using high-quality, leak-proof alkaline batteries for optimal performance. Rechargeable batteries or standard 1.5V AA batteries are not suitable for this product.

