

75F® Wireless Multi Sensor

An all-in-one wall sensor supporting indoor air quality, comfort, and efficiency



- Senses for temperature, humidity, occupancy, and CO₂
- Enables out-of-the-box high-quality zoning control when combined with the 75F® Smart Node™
- PIR occupancy sensor and algorithms for Auto Away and Auto Forced Occupied provide additional energy savings opportunities

75F® Wireless Multi Sensor

75F's suite of wireless sensor offerings empowers building owners with IoT-connected devices, enhancing efficiency and comfort in critical spaces. The 75F Multi Sensor provides precise measurements of CO₂, occupancy, temperature, and humidity, and seamlessly connects to the 75F® Smart Node™ or HyperStat over Bluetooth to deliver real-time data that guides equipment control. This sensor can create a scalable network, expanding monitoring capabilities throughout the building.



OVERVIEW

The 75F® Wireless Multi Sensor is an all-in-one sensor providing temperature, humidity, occupancy, and CO₂ to augment the 75F® Smart Node™ for high-quality in zoning systems. This small sensor informs air quality and occupancy-based energy sequences for optimal IAQ and efficiency.

The sensor communicates to the nodes and stats via Bluetooth. The modern, low-profile design appeals to aesthetics and allows the sensor to blend in with office environments.

KEY FEATURES

- Accurate temperature readings (typical +/- 1F)
- Accurate humidity readings (typical +/- 2% R.H.)
- Accurate occupancy measurement with a measuring angle of 110-degree angle and 9.8 foot (3 meter) distance
- CO₂ sensitivity and accuracy meets ASHRAE Standard 62.1 +/- 50 ppm at a 400 to 5000 ppm concentration
- Bluetooth to communicate with a master device such as a HyperStat or Smart Node
- Has a range of 32.8 feet (10 meters) line of sight to provide an extended range to the connected node or stat.

ADDITIONAL FEATURES

- 2 x AA Alkaline battery power
- Sleek design, low-impact aesthetics
- Factory pre-calibrated
- Easily mounted
- Up to 4 devices can be connected to the Node or Stat

COMPATIBLE APPLICATIONS

- 75F® Dynamic Airflow Balancing™
- 75F® Outside Air Optimization™
- 75F® Smart VAV with Reheat™
- 75F® Single-Stage Equipment
- HyperStat Remote Sensing



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MECHANICAL

Dimensions 3.34" x 1.18" (85mm x 30mm)

Mounting Wall Mount

Operating Temperature 32°F – 122°F (0°C – 50°C)

SENSORS

Temperature 32°F – 122°F (0°C – 50°C); typical accuracy of +/- 1°F

Humidity Sensing range between 20 to 100%RH; Typical accuracy of +/- 2% RH

CO2 Range - 400 and 5000 ppm
Accuracy ± 50 ppm $\pm 3\%$ of reading

Occupancy Senses targets within 9.8 feet (3 meter) distance and 110 deg angle.

ELECTRICAL

Power 2 x AA Alkaline battery

COMMUNICATIONS

Wireless Via Bluetooth up to 4 sensors can be connected on the bus.

