SPEC SHEET

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 IoTconnected 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





75F[®] Wireless Multi Sensor

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 ±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. |







