75F® Wireless Multi Sensor

An all-in-one wall sensor supporting indoor air quality, comfort, and efficiency without pulling new wire

– Senses for temperature, humidity, occupancy, and CO_2

– Enables out-of-the-box high-quality zoning control when combined with 75F controllers and thermostats

– PIR occupancy sensor and algorithms for Auto Away and Auto Forced Occupied provide additional energy savings opportunities

– 3+ years of battery life with (2) standard AA batteries

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 Wireless Multi Sensor provides precise measurements of CO_2, occupancy, temperature, and humidity, and seamlessly connects to the 75F® Smart Node™, HyperStat Split, or MyStat over Bluetooth to deliver real-time data that guides equipment control. This sensor can create a scalable network, expanding monitoring capabilities throughout the building without the need to pull wire.

OVERVIEW

The 75F® Wireless Multi Sensor is an all-in-one sensor providing temperature, humidity, occupancy, and CO_2 to augment the 75F controllers for high-quality performance 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. Up to four Wireless Multi Sensors can connect to a single node or stat to provide an average between multiple locations.

KEY FEATURES

• Accurate temperature readings (typical +/- 1F)

• Accurate humidity readings (typical +/- 2% R.H.)

• Occupancy measurement with a measuring angle of 110-degree angle and within 3 metres (10 foot) distance

• CO_2 sensitivity and accuracy meets ASHRAE Standard 62.1 +/- 50 ppm +/- 3% MV at a 400 to 5000 ppm concentration

• Bluetooth to communicate with a controller such as a HyperStat or Smart Node

• Has a range of 30 feet (10 meters) line of sight to provide an extended range to the connected node or stat

ADDITIONAL FEATURES

• 2 x AA Alkaline batteries

• Sleek design, low-impact aesthetics

• Factory pre-calibrated

• Easily mounted

• Up to 4 devices can be connected per node or stat

COMPATIBLE APPLICATIONS

• CAV

• VAV

• Outside Air Optimization

• Single-Stage Equipment

• Remote Sensing for HyperStat Split and MyStat

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 10 feet (3 meter) distance and 110 deg angle.

ELECTRICAL

Power	2 x AA Alkaline batteries

COMMUNICATIONS

Wireless	Bluetooth LE 5.4

ORDERING INFORMATION

Wireless Multi Sensor – 7X-SE-C10X-X

CERTIFICATION/TESTS

UL 2043 - "Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces"