SPEC SHEET

75F® 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® Multi Sensor

75F's suite of sensor offerings gives building owners the power of IoT-connected devices for optimal efficiency and comfort in spaces where it matters most. Measure to manage with the 75F Multi Sensor, a high-precision CO_2 , occupancy, temperature and humidity sensor that connects with the 75F® Smart Node $^{\text{m}}$ or Stat to deliver data that influences equipment control. This device can be daisy chained with other sensors on the PoR sensor bus to provide an extensible sensor network.



OVERVIEW

The 75F® Multi Sensor is an all-in-one sensor providing temperature, humidity, occupancy, and CO_2 to augment the 75F® Smart Node™ 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 plugs into the standard sensor bus that 75F offers on its nodes and stats. 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
- \bullet CO $_2$ sensitivity and accuracy meets Title 24. +/- 75 ppm at a 400 to 1000 ppm concentration
- Proprietary 1-wire protocol to communicate with a master device such as an HIA or the Smart Node
- Can be daisy-chained with other sensors to provide extensible sensor network

ADDITIONAL FEATURES

- PoR Sensor bus for power and communication
- Sleek design, low-impact aesthetics
- Factory pre-calibrated
- Easily mounted
- Up to 4 devices can be connected on the Bus

COMPATIBLE APPLICATIONS

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

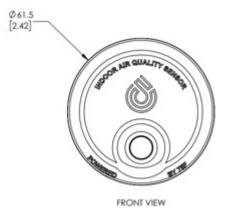


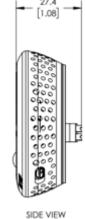


75F[®] Multi Sensor



Dimensions	2.4" x0.83" (60.9mm x 21.1mm)
Mounting	Wall Mount
Operating Temperature	32°F – 122°F (0°C – 50°C)





SENSORS

Temperature	$32^{\circ}F - 122^{\circ}F$ (0°C $- 50^{\circ}C$); typical accuracy of +/- 1°F or 0.5°C
Humidity	Sensing range between 20 to 85%RH; Typical accuracy of +/- 2% RH
CO2	+/- 75 ppm at 400 and 1000 ppm concentration when measured at sea level and 77°F (25°C)
Occupancy	Senses targets within 3mtr distance and 110 degree angle.



ISOMETRIC VIEW

ELECTRICAL









COMMUNICATIONS

Wired	Two wire Power over RS485 line to
	enable communication and power. Up
	to 4 sensors can be connected on the
	bus.

