ClimaVision Multi Sensor

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

Multi Sensor | Part # 7C-SE-C72X-X

– Senses for temperature, humidity, occupancy, and CO_2

– Enables out-of-the-box high-quality VAV and VVT zoning control when combined with the ClimaVision Smart Node

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

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ClimaVision'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 Multi Sensor, a high-precision CO_2, occupancy, temperature and humidity sensor that connects with the ClimaVision Smart Node to deliver data that influences equipment control. This device can be daisy chained with other sensors on the sensor bus to provide an extensible sensor network.

Part # 7C-SE-C72X-X

OVERVIEW

The Multi Sensor is an all-in-one sensor providing temperature, humidity, occupancy, and CO_2 to augment the ClimaVision Smart Node for high-quality control in VAV and VVT zoning systems. This small sensor informs air quality and occupancy-based energy sequences for optimal IAQ and efficiency.

The sensor plugs into the standard 3-wire sensor bus that Carrier 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 100-degree angle and 8ft height
- CO_2 sensitivity and accuracy meets Title 24. +/- 75 ppm at a 400 to 1000 ppm concentration
- 3-wires to communicate with a master device such as the Smart Node
- Can be daisy-chained with other sensors to provide extensible sensor network

ADDITIONAL FEATURES

- 3-wire interface 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

- VVT
- VAV
- Outside Air Optimization
- Single-Stage Equipment
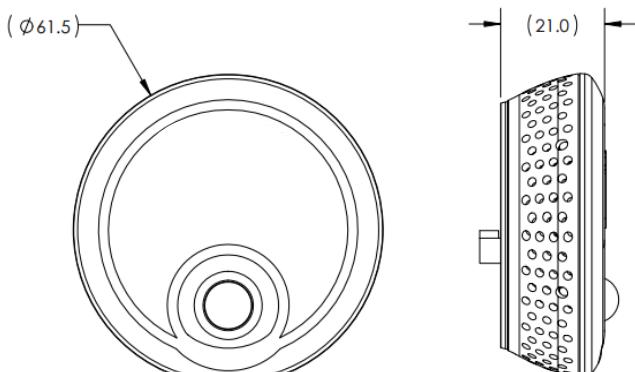- Remote Sensing for HyperStat

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(Ø61.5) (21.0)

FRONT VIEW SIDE VIEW

MECHANICAL

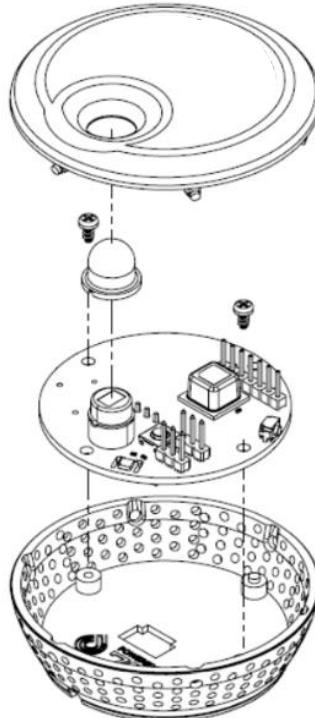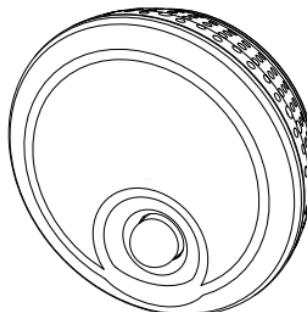|	
Dimensions	2.4" x 0.83" (60.9mm x 21.1mm)
Mounting	Wall Mount
Operating Temperature	32°F – 122°F (0°C – 50°C)

SENSORS

Temperature	32°F – 122°F (0°C – 50°C); typical accuracy of +/- 1°F or 0.2°C
Humidity	Sensing range between 20 to 85%RH; Typical accuracy of +/- 2% RH
CO2	+/- 75 ppm at a 400 and 1000 ppm concentration when measured at sea level and 77°F (25°C)
Occupancy	Senses targets within 8ft distance and 100 deg angle.

ELECTRICAL

Power	3.3VDC (+/-10%)

COMMUNICATIONS

Wired	3-wire sensor bus for power and communication. Up to 4 sensors can be connected on the bus.