



ClimaVision

Multi Sensor v2

Part # 7C-SE-C77X-X

The All-in-One Indoor Air Quality Solution

The ClimaVision Multi Sensor v2 is a high-precision wall sensor designed to augment building intelligence by monitoring temperature, humidity, occupancy, and CO₂. This all-in-one device seamlessly connects with the ClimaVision Smart Node and Connect Module to enable high-quality VAV and VVT zoning control. Its modern, low-profile design allows it to blend into office environments while providing the critical data needed for occupancy-based energy sequences and optimal indoor air quality (IAQ) without pulling new wire.

Features and Benefits

IAQ Zoning Control: Provides the necessary data to enable out-of-the-box high-quality zoning with IAQ when combined with the ClimaVision Smart Node.

Simplified Infrastructure: Utilizes the PoR sensor bus to support power and communication over any two wires, including standard 18/2 thermostat cabling, creating efficiencies by reducing installation complexity.

Occupancy-Driven Savings: Utilizes a PIR occupancy sensor and specialized algorithms to drive energy sequences like Auto Away and Auto Forced Occupied.

Accurate Environmental Monitoring: Delivers high-precision sensing for temperature ($\pm 1^\circ\text{F}$), humidity ($\pm 2\%$ R.H.), and occupancy to ensure consistent comfort and data-driven equipment control.

Aids Air Quality Oversight: Features CO₂ sensitivity that supports monitoring standards such as ASHRAE 62.1 and Title 24, designed for accurate oversight of indoor environments.

Extensible Sensor Network: Designed with a 2-wire PoR interface that allows up to four sensors to be daisy-chained on a single bus to provide an average between multiple locations.

Versatile Application Support: In addition to providing the Smart Node v2 and Connect Module with IAQ and occupancy sensing, it functions as a remote sensing solution for MyStat or the HyperStat Split.

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Specification	
Compatible Applications	Smart Node v2, Smart Node v2 with DPS, MyStat v2, Connect Module
Power	24VDC (+/-10%) over the PoR
Operating Temperature	32°F – 122°F (0°C – 50°C)
Temperature Sensor	32°F – 122°F (0°C – 50°C); typical accuracy of +/- 1°F or 0.2°C
Humidity Sensor	Sensing range between 20 to 85%RH; Typical accuracy of +/- 2% RH
Occupancy Sensor	Senses targets within a 4m (approx. 13ft) distance and 110-degree angle.
CO2 Sensor	+/- 75 ppm at a 400 and 1000 ppm concentration when measured at sea level and 77°F (25°C)
Communication	Wired Communication: 2-wire sensor bus for power over RS485 (PoR) line and communication; supports daisy-chaining up to 4 devices on the bus.
Compliance	UL, cUL
Mechanical Dimensions	2.4" x 0.83" (60.9mm x 21.1mm).
Mounting	Wall mount

Dimensions

