

# ClimaVision HyperSense

Sophisticated Indoor Air Quality Sensing Station & Occupant Interface

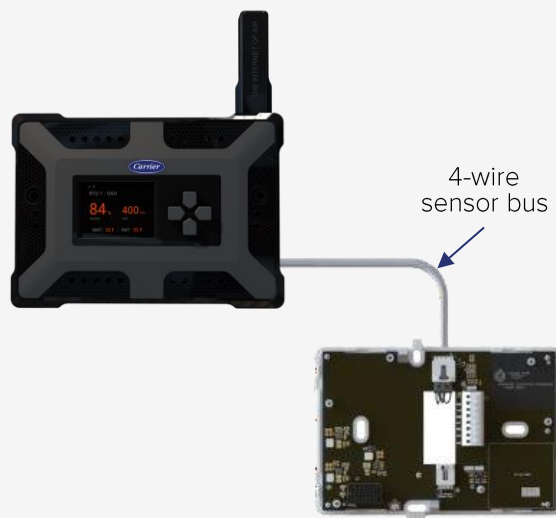


HyperSense | Part # 7C-HS-C1W-X

- Occupancy, temperature, light, humidity, sound, CO2, VOC and optional particulate matter (PM2.5 and PM10) sensors
- TFT LCD display with touch slider and user buttons
- (2) Thermistor inputs
- (2) Analog inputs

## ClimaVision HyperSense (7C-HS-C1W-X)

The HyperSense caters to use cases where a highly capable remote interface is desired for a ClimaVision Smart Node controlling a VVT or VAV terminal unit. HyperSense is part of ClimaVision's vertically-integrated suite of intelligent building solutions delivering multi-mode sensing, remote monitoring, and individual zone control for the comfort and productivity of building occupants. The HyperSense works out of the box with the Smart Node.



### OVERVIEW

The HyperSense brings building owners up to eight onboard sensors for indoor air quality management (IAQM) bundled into one device. Paired with the Smart Node, the HyperSense's industry-leading sensing turns into granular and sophisticated zone control. The HyperSense delivers various parameter values in a room or zone to the Smart Node, which then carries out advanced control algorithms based on real-time data from the space.

### KEY FEATURES

- Provides a large screen with a touch slider and mechanical keys to change values on the Smart Node
- Measures indoor air quality and conveys the information to a Smart Node
- 4 wire interface for RS 485 communication from the Smart Node to the HyperSense

### ADDITIONAL FEATURES

- Sensor bus for power and communication with the Smart Node
- Option to connect a particulate matter sensor (configurable to PM2.5 or PM10) (7C-SE-K1X-X)

### COMPATIBLE APPLICATIONS

- VVT
- VAV
- Outside Air Optimization
- Single-Stage Equipment Controls

### INCLUDED

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(1) HyperSense

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(1) Mounting Adapter plate

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(2) Mounting Screws

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## MECHANICAL

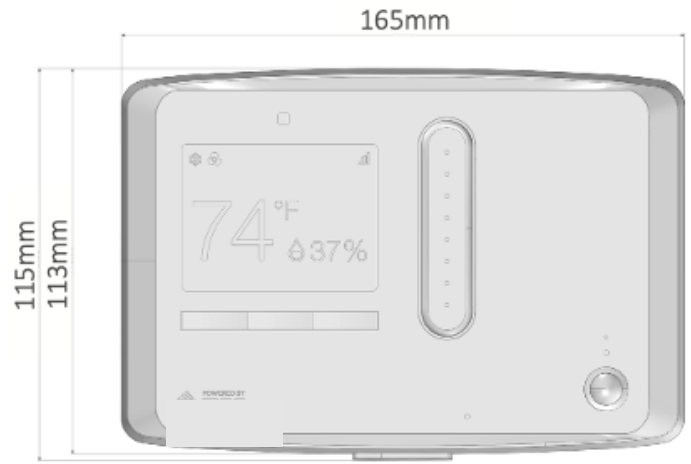
<b>Dimensions</b>	6.5" x 4.5" x 1.15" (165mm x 115mm x 29 mm)
<b>Mounting</b>	(2) screws in drywall
<b>Screen</b>	2.8" 240x320 pixel TFT LCD
<b>Operating Range</b>	32°F to 122°F (0°C to 50°C)

## SENSORS

<b>Temperature</b>	Operating range between 32°F to 122°F (0°C to 50°C); typical accuracy of +/- 1°F or 0.2°C
<b>Humidity</b>	Operating range between 20 to 85% noncondensing; Typical accuracy of +/- 2% RH
<b>Dedicated CO<sub>2</sub> Sensor</b>	Range 0-40'000 ppm; Accuracy +/-30ppm over range of 400-10,000ppm and lifetime of 15 years
<b>Light</b>	Ambient light sensor; high-accuracy UV index sensor; matches erythema curve; < 100 mix resolution
<b>Sound</b>	40-120dB response for 100 Hz to 10Khz
<b>Occupancy</b>	Passive Infra Red (PIR) with detection range of 4m with 30-degree angle
<b>VOC</b>	TVOC: 0-60'000 ppb. Typical Accuracy - 15% of measured value

## OPTIONAL SENSOR

<b>PM2.5, PM10 7C-SE-K1X-X</b>	Detection range of 0-1000ug/m3 and accuracy of +/- 10ug/m3 (PM2.5, 0-100 ug/m3) or +/- 25ug/m3 (PM10, 0-100ug/m3)
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## ELECTRICAL

<b>Power</b>	6.5V DC (+/-15%) with a maximum power consumption of 2.5W
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## COMMUNICATIONS

<b>Wired</b>	(1) 4 wire RS-485 interface used to power and communicate with the Smart Node
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## I/O

<b>Inputs</b>	(2) 10K Type-2 thermistor inputs with 2% accuracy (2) 0-10V analog voltage inputs with 2% detection accuracy
<b>Outputs</b>	(1) One-wire interface (1) TFT Screen

## WALL PLATE

6.1" x 4.4" (155mm x 113mm)

