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HyperStat 7C-HS-C1W-X Hyper Sense Installation Guide

Contents

HyperStat

HyperStat 7C-HS-C1W-X Hyper Sense

Specifications

- **Product Name:** HyperSense (7C-HS-C1W-X)

- **Power Source:** 6.5 DC input SmartNode
- **Operating Range:** Humidity 20-85% non-condensing
- **Communication:** Onboard Sensors

Introduction

HyperSense is a subset of HyperStat capable of sensing/monitoring and providing a user interface for the SmartNode it is connected to. Power and communication are achieved through the 4-wire cable harness, making the wiring effort minimal.

Scan this QR code to get a more detailed version of the Installation Guide

Package Contents

The package includes the following:

- HyperSense (7C-HS-C1W-X)
- Installation Guide

SPECIFICATIONS

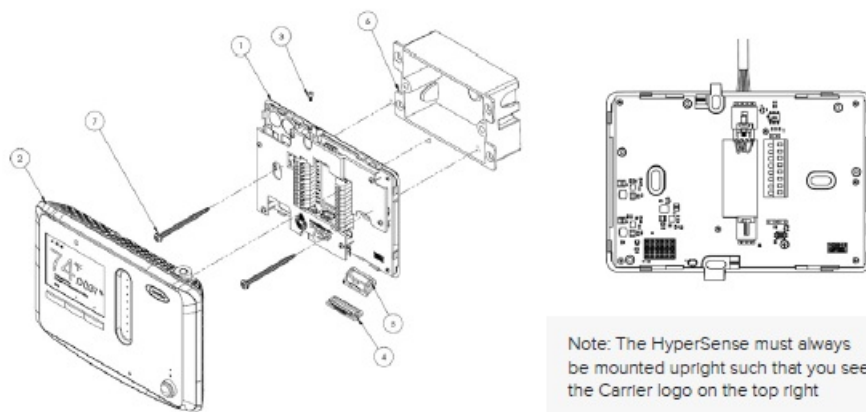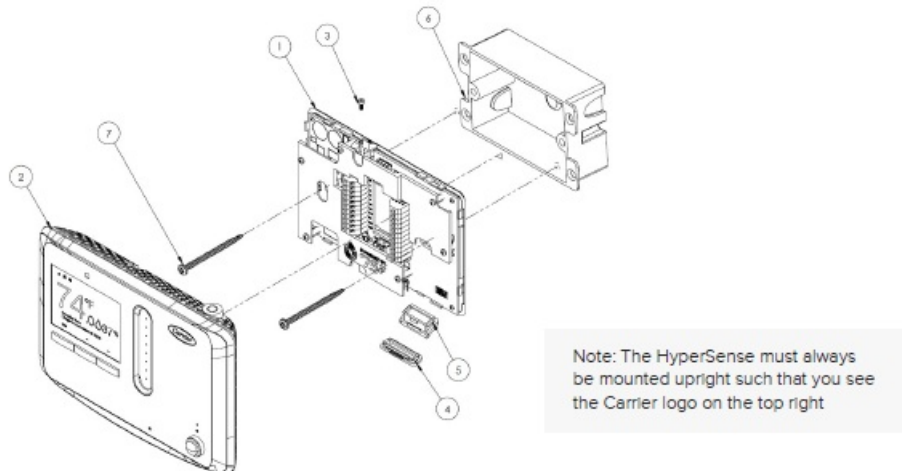| Power	Power Source: 6.5 DC input SmartNode
Operating range	Temperature 0 to 122°F (-17 to 50°C) Humidity 20-85% non-condensing.
Communication	4-wire interface for RS 485 communication @ 9600 baud and 6.5V DC, 100mA power source
Onboard Sensors	Temperature range of 32 to 122°F with an accuracy of +/-1°F Humidity 0 to 100% with an accuracy of 2%
	CO_2 sensor with a range of 0 – 40,000 ppm, accuracy of +/-30ppm (0 – 5000ppm, 25 C).
	VOC sensor; Typical Accuracy: 15% of measured value; TVOC: 0 – 60,000 ppb.
	Occupancy sensor based on passive infrared (PIR) with detection range of 4m with 15 -degree angle
	Light Sensor. Ambient light sensor • <100 LUX resolution • High-accuracy UV index sensor • Matches erythermal curve
	Sound sensor with 40-120dB response for 100Hz to 10KHz
	PM2.5, PM10 sensor (optional). Detection range of 0-1000µg/m3 and accuracy of +/-10µg/m3 (PM2.5, 0-100µg/m3) or +/-25µg/m3 (PM10, 0-
	100µg/m3). Maximum long-term mass concentration precision limit drift:
	· 0 to 100 µg/m3 ±1.25 µg/m3/year
	· 100 to 1000 µg/m3 ±1.25 % mV/year
Inputs	2 x 10K Type-2 thermistor inputs with 2% accuracy
	2 x 0-10V Analog voltage inputs with 2% detection accuracy (2-10V) Touch slider for temperature control along with 3 mechanical buttons
Outputs	2.8″ 240×320 pixel TFT display

PRECAUTIONS

- Failure to wire devices with the correct polarity when using a shared transformer may result in damage to any device powered by the shared transformer.
- Turn off the power before wiring. Never connect or disconnect the wiring with the power turned on. Do NOT allow live wires to touch the circuit boards.
- Install in accordance with all state and local codes.
- Do not connect the front to the back plate assembly when the power is ON.

MOUNTING

1. HyperStat Interface – HyperSense
2. HyperStat Main
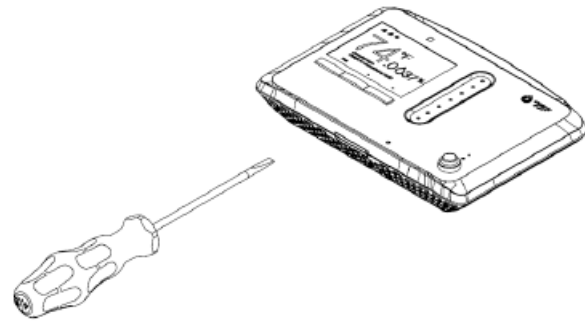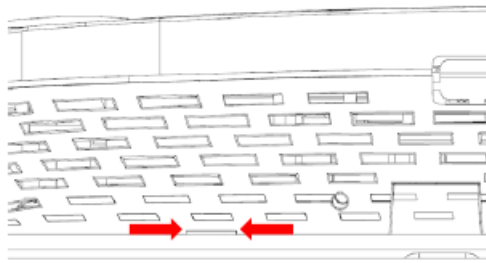3. Allen head screws
4. Rubber cover 1

5. Rubber cover 2
6. Gang Box
7. PHP screws
8. Backplate

Note: The HyperSense must always be mounted upright such that you see the Carrier logo on the top right

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1. Place the HyperStat Interface-HyperSense PCB and the back plate (only if the gang box is fixed vertically) on the gang box such that the back plate covers the gang box and fix these two items to the wall gang box with the PHP screws provided in the box.
2. Now align the HyperStat main to lock onto the HyperStat Interface- HyperSense PCB.
3. Use the Allen head screws to make this entire setup tamper-proof.
4. Rubber covers 1 and 2 must be fixed to cover the programming pins.

DIS-ASSEMBLING

1. If the HyperSense is mounted on the wall, hold the front plastic with both hands and pull it away from the wall.
2. If you are holding the HyperSense in your hands, insert a flat-head screwdriver in the notch provided (marked by the two arrows shown in the image) between the front and back plastic and twist to separate them.

Note:

- Favourable for Pollution degree 2 or the equivalent
- Type action – Type 1. C
- The method of connection/disconnection for screwless terminals is mentioned in the article and pointed out by the QR label on the box.
- Terminal Identification – In the Operating Manual
- Rated impulse voltage – 330V
- Operating Ambient Temperature: 0°C to 50 °C
- Indoor Use Only
- Powered by Class 2 Power Source

CARRIER CLIMAVISION TECHNICAL SUPPORT
Installation and servicing of Control Systems can be hazardous due to electrical components. Only trained and qualified service personnel should install, repair or service control system components.
For more information on wiring, commissioning, or usage of the ClimaVision product line, please refer to any documentation provided with the job. If no documentation was provided with the job, please use the ClimaVision Help Center (support.climavision.com) where you can find application-specific wiring schematics and helpful user guides and videos or scan the QR code here:

Scan this QR code to get a more detailed version of the Installation Guide
If you need help beyond that, please reach out to your local Carrier distributor for support.

FAQ

(Frequently Asked Questions)

- **Q: Can I use HyperSense with any SmartNode?**
  - A: Yes, HyperSense is compatible with any SmartNode that supports a 4-wire cable harness.
- **Q: What is the operating range for HyperSense?**

- A: The operating range for humidity is 20-85% non-condensing.

Documents / Resources

	HyperStat 7C-HS-C1W-X Hyper Sense [pdf] Installation Guide 7C-HS-C1W-X Hyper Sense, 7C-HS-C1W-X, Hyper Sense, Sense

References

- **User Manual**