DATA SHEET

Casambi Smart Ethernet Thermostat

Overview

- Compatible with Casambi Wireless Mesh Systems
- Built-in Ethernet Connectivity
- Gas/Electric to 2H/2C, Heat Pump to 3H/2C
- Humidity Sensing and Control
- Advanced Remote Sensor Bus
- Two Configurable Relays
- Full Color Touchscreen
- Weekly & Calendar Scheduling
- BACnet/IP and Modbus TCP/IP Included
- 16 Remote Sensors: up to six indoor, one humidity, one outdoor, six water leak sensor, and up to three auxiliary sensors for monitoring items (i.e., supply air, return air, walk-in refrigerators and freezers)
- Two Digital Inputs for Fault Conditions, including Condensate and Equipment Faults
- Occupancy Input from Casambi Wireless sensor
- On-board Data Logging with Sub-Metering Support



USA

Applications

The X7-IP-CB-W/B is an Ethernet color touchscreen thermostat with Casambi Wireless Mesh, an ad-vanced remote sensor bus, and more.

The Casambi Wireless Mesh occupancy sensor data allows NetX soft setback and soft recovery algorithms to optimize HVAC usage without sacrificing comfort. The scheduling includes daily schedules (4 events per day) and up to 80 Additional Events. The X7-IP-CB-W/B also includes full Modbus TCP/IP and BACnet/IP sup-port over Wi-Fi, directly on the thermostat.

The X7-IP-CB-W/B is designed to operate with mwConnect's Casambi Wireless Mesh system and the Network Thermostat CloudCon-nect Online Management software.

Manufactured in the USA

The X7-IP-CB-W/B device is Manufac-tured in the USA, using both imported and US-made components.

Operation

Casambi Wireless Mesh Controls: The device connects to a wireless mesh network via a mobile app, available as iOS or Android, to allow initial setup and subsequent parameters adjustments.

Energy Savings: Efficient Equipment Restart randomizes equipment starts to minimize multiple units turning on simultaneously when there are multiple NetX thermostats at the location. Random Restart on power up staggers restart of HVAC system after a power outage to minimize peak inrush current. Adaptive Recovery for Schedules allows system to achieve desired setpoint at the beginning of the schedule. NLC Soft Setback and Soft Recovery algorithms optimize energy savings

See the mwConnect Casambi Commissioning User Manual for more information.

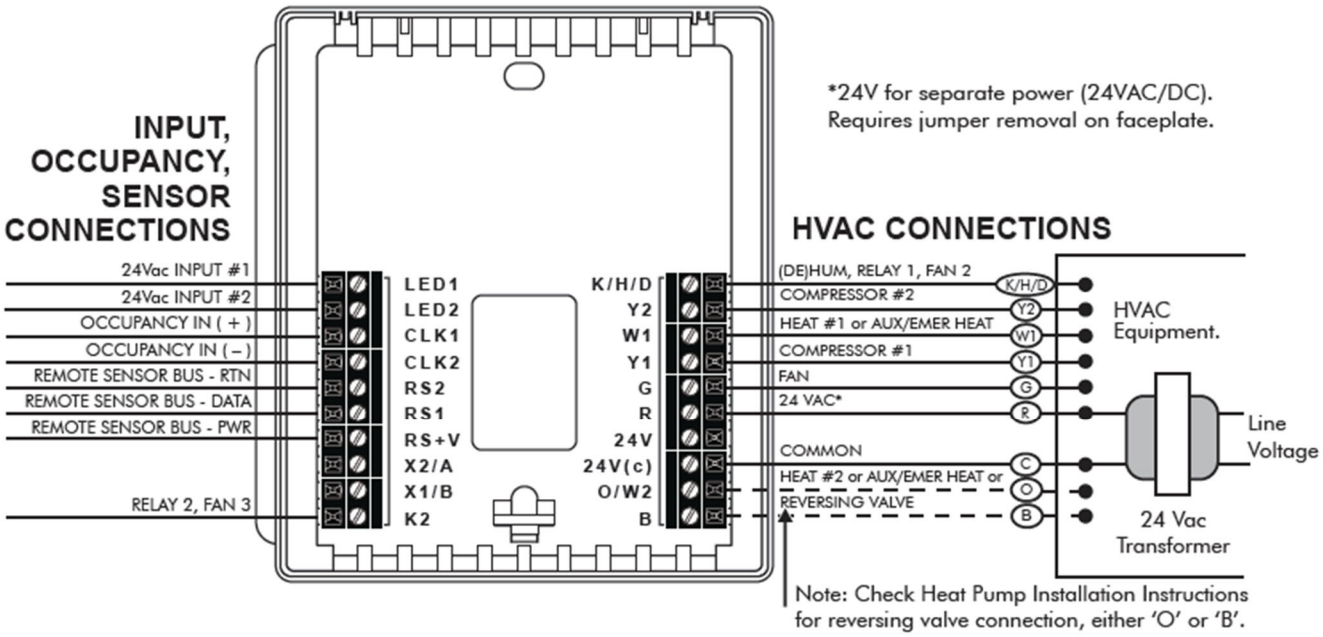
Summary

Product Type: Commercial Grade Ethernet Thermostat
Rated Voltage: 20V to 30VAC, 24VAC nominal
Rated A.C. / D.C. Current: 0.05 to 0.75 AC / 0.0 to 0.75 DC Amp continu-ous, per output, surges to 3 Amps maximum
Temperature Control Range: Heating: 38 to 88°F (6 to 30°C) in 1° steps Cooling: 60 to 108°F (16 to 40°C) in 1° steps
Humidity Control Range: Humidify: 10% to 60%RH in 5%RH steps Dehumidify: 35% to 75%RH in 5%RH steps
Ethernet: 10/100Mbps, 802.3, Auto Negotia-tion, Auto-MDIX
Expansion Port: Integrated Casambi Wireless Mesh Module
Max Wireless Range[1]: 100ft (30.4m)
Dimensions: 5.1"H x 4.7"W x 1.15"D (128mm x 119mm x 29mm)
Color: Black
Warranty: 5 years

Note:
1. Wireless Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for wireless range accuracy.

Project	
Location/Type	

Wiring Diagram



How To Order

Model No.	Description	Rated Voltage	Color
X7-IP-CB-W	Casambi Wireless Mesh Commercial Grade Thermostat with built-in Ether-net	20V to 30VAC, 24VAC nominal	White
X7-IP-CB-B	Casambi Wireless Mesh Commercial Grade Thermostat with built-in Ethernet	20V to 30VAC, 24VAC nominal	Black