

#### APPLICATIONS:

*Specified Comfort is suitable for renovation, upgrade and new construction projects.*

- Commercial Offices
- Educational Facilities
- Worship Facilities
- Research Facilities
- Retail Locations
- Hospitality & Restaurants



#### FEATURES:

- Integrated Modbus transceiver with factory wiring harness included
- Easy front panel access for transceiver diagnostics
- Universal applications
- Easy to install and configure: simply mount, connect, power and go!
- Secure wireless 2.4GHz ZigBee communications with other network devices
- Scalable to manage a single building or an entire campus
- Graphical view of real-time and historical energy use provides comprehensive and actionable information to users
- Specified Comfort products operate independently or as an integrated solution
- Made in the USA (ARRA Compliant)

#### DESCRIPTION:

The Specified Comfort SC-EMS-T32-P Thermostat is a rugged, industrial control that communicates with the Specified Comfort Energy Manager. This universal thermostat features an integrated Modbus transceiver that connects to the Specified Comfort Energy Manager through a secure Zigbee mesh network. This design allows each thermostat to communicate with other thermostats, extending the range and ensuring a strong and reliable signal.

The integrated transceiver with factory wiring harness reduces installation time and eliminates miss-wiring. Additionally, it provides easy access for transceiver diagnostics without having to remove the thermostat sub base.

#### SPECIFICATIONS:

##### ELECTRICAL

Input Voltage: 24VAC 50/60 Hz +/- 15%

Relay Rating: 24VAC @ 1 amp max. per relay

##### WIRELESS COMMUNICATION

Zigbee

##### PROTOCOL

Modbus

##### APPROVALS

FCC Part 15 C-tick

##### ENVIRONMENTAL

Operating Temperature: 32° to 122°F

Operating RH: 0 - 95% (non-condensing)

##### BACKLIGHT

Blue EL (Electro Luminescent)

##### PHYSICAL

Dimensions (HxWxD): 5.50 x 4.375 x 1 in

Color: White

Weight/ Shipping Weight: <10 oz/ <1lb

##### TERMINAL DESIGNATIONS

W2 – Second Stage Heating or Auxiliary Heat

Y2 – Second Stage Compressor

W1-O/B – First Stage Heating or Reversing Valve

Y1 – First Stage Compressor

G – Fan Relay

R – 24 Volt Hot (jumped to '24')

24 – 24 Volt Hot (jumped to 'R')

24C – 24 Volt Common

B – Modbus Communications

A – Modbus Communications

T – Remote Sensor

#### ORDERING INFORMATION:

SKU	Description
SC-EMS-T32-P	Specified Comfort Wireless Communicat- ing Thermostat
Optional Accessories:	
SC-EMS-DAS	Specified Comfort Wireless Duct Air Sensor



Tranceiver Front Access

#### DIP SWITCH FUNCTIONS:

SWITCH #	OFF	ON
1 Not used	Leave OFF	—
2 Equipment	Heat/Cool	Heat Pump
3 Equipment Mode	Single Stage	Multi-Stage
4 Fan Mode or Reversing Valve	Gas "O"	Electric "B"

SWITCH #	OFF	ON
5 Short Cycle Timer	4 Minutes	Disabled
6 Thermostat Operations	Leave OFF	—
7 Minutes Run Time	Leave OFF	—
8 Setpoints	—	Leave ON

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