PELICAN

TS250H Internet-Enabled Thermostat with Integrated CO_2 and Humidity Sensor

The Pelican Internet-Enabled Thermostat with integrated Humidity and CO_2 sensors provides commercial customers with virtual climate and air quality management. The TS250H delivers accurate temperature management, humidity management, air quality (CO_2) management, leading edge energy efficiency, built-in safeties and alarming, and fine-tuned comfort. Coupled with the Pelican Web App, the TS250H tracks space temperature, humidity levels, CO_2 levels, and HVAC operational data in real-time and historically. All information is displayed in real-time online and is viewable on any Internet-connected device.

+ MESH WIRELESS NETWORK
The TS250H communicates wirelessly with a GW400 to reach the Internet. Each TS250H has built-in state-of-the-art wireless mesh network communication and repeating.

+ FAULT ALARMING
Built-in system and space analytics with automated email or text message alerts when a fault is detected.

+ WEB APP
Virtual and central management of TS250H available on all smart phones, tablets, and/or PCs. Directly manage thermostat temperature, humidity, and CO_2 levels through a web browser. Designed for intuitive control over multiple thermostats.

+ HISTORICAL TREND DATA
Online viewable historical data of space temperature, setpoints, HVAC demand, CO_2 level, humidity level, and fan demand.

+ INSTALLATION
Industry standard HVAC terminals utilize existing thermostat wire. Included with TS250 is Pelican's innovative limited wiring relay pack (WM500) used in applications where there are only three (3) wires to the HVAC unit.

+ SCHEDULING
Through the Pelican Web App you can schedule the TS250H thermostat for daily, 5-2, or 7-day schedules. Thermostats can also be scheduled as groups, for simple multi-thermostat management.

Designed and assembled in the USA
5-Year Limited Warranty

FC
CONTAINS FCC ID
OA3MRF24J40MA

Air Quality
Management

Specifications

POWER

Hardwire	24VAC, 60Hz; 50 mA
Voltage Range	23 - 30VAC
Relay Current	1.0A running

COMPATIBILITY
24VAC gas, electric, or oil heating systems.
Conventional and Heat Pump
Zone Damper Actuator

WIRING

Conventional	R, RC, W, W2, Y, Y2, G, C, Dh, Hu
Heat Pump	R, RC, O/B, AUX, Y, Y2, G, C, Dh, Hu
Damper Actuator	R, C, Y, Y2, W, W2

SYSTEM PROTECTION
Four-Minute Compressor Short-Cycle Protection
Temporary Schedule Override
Auxiliary/Emergency Heat Efficiency Algorithm
Keypad Lockout
Trend Data Analytics and Fault Monitoring
Humidity Dead Band Protection

THERMOSTAT RANGE

Operating Range	-4°F to 122°F
Differential Temperature	±0.5°F
Operating Humidity (%RH)	5 to 90% RH; non-condensing
Humidity Setting Range	10 – 80% RH
Dehumidify Setting Range	20 – 90% RH
Integrated Room CO_2 Sensor	-20°F to 160°F

SIZE

Inch	H 3.5 x W 5.97 x D 1.5
mm	H 89 x W 150 x D 38
Horizontal Mounting	

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