

TS250H Internet-Enabled Thermostat with Integrated CO² and Humidity Sensor

The Pelican Internet-Enabled Thermostat with integrated Humidity and CO² sensors provides commercial customers with virtual climate and air quality management. The TS250H delivers accurate temperature management, humidity management, air quality (CO²) 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, CO² 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 CO² 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, CO² 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



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
Humidity Accuracy	±2%

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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