

# Z8 Wireless Internet-Enabled Zone Controller

Pelican’s wireless zone controller is designed for VVT, VAV, Pneumatic, and Dual-Duct retrofits. The Z8 is a rooftop HVAC controller with the ability to communicate with up to eight zones over Pelican’s innovative wireless mesh network. Pelican’s zone solution is pressure dependent. The Z8 has an integrated duct pressure input and provides true static pressure control, management, and safety. Built-in algorithms allows for comfort, energy efficiency, and safety without any programming expense. Z8 connects wirelessly to a GW400 for full online management and diagnostics.

**+ MESH WIRELESS NETWORK**

The Z8 communicates wirelessly with a GW400 to reach the Internet. It also communicates wireless with each zone thermostat (i.e., TS200, TS250, TS200H, TS250H).

**+ FAULT ALARMING**

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

**+ PELICAN WEB APP**

Virtual and central management of Z8 and thermostats available on all smart phones, tablets, and PCs. Directly manage zones though a web browser. Designed for intuitive control over multiple thermostats.

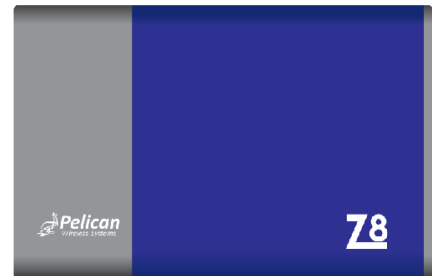
**+ HISTORICAL TREND DATA**

Online viewable historical data on space temperature, set points, HVAC demand, and HVAC operations.

**+ INTELLIGENT CONTROL**

The Z8 delivers built-in static pressure management (bypass or VFD), HVAC unit control of up to three stages heat and three stages cool, economizer control, demand ventilation, and supply, return, and outside air management. Using intelligent algorithms, each Pelican zoned system learns its environment and adjusts operations to achieve the highest level of comfort with the greatest efficiency.

Designed and assembled in the USA  
5-Year Limited Warranty



## Specifications

**POWER**

Hardwire: 24VAC, 60Hz; 100 mA  
Voltage Range: 23 - 30VAC  
Relay Current: 1.0A running

**WIRING**

Conventional: R, RC, C, Y, W, G, W2, Y2, G2, W3, Y3  
Heat Pump: R, RC, C, Y, O/B, G, AUX, Y2, G2, Y3  
0-10VDC Output: A1, A2, A3, A4  
0-10VDC Input: S1 and S2  
Thermistor Input: T1, T2, T3  
Static Pressure: Low and High direct input for static probe (probe and tubing included)

**COMPATIBILITY**

24VAC gas, electric, or oil heating systems  
Conventional or Heat Pump Units  
Three Stages of Heat and Cool  
Dual-Duct System  
Maximum Eight (8) Zones (Bypass Damper is NOT counted as a zone)

**TEMPERATURE DETECTION RANGE**

-20°F to 180°F

**SYSTEM PROTECTION**

Four (4) minute compressor short-cycle protection  
Automatic High and Low Discharge Temperature Safety Reset Cycle  
Automatic High and Low Static Pressure Safety Reset Cycle  
Minimum Supply to Return Alarming  
Automatic Supply Temperature Reset  
Automatic Static Reset

**SIZE**

Inch H 5.25 x W 8.0 x D 2.0  
mm H 133 x W 203 x D 51  
Horizontal Mounting

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