

PEARL - Unit Ventilator Controller

This device wires directly to a Pelican thermostat to provide intelligent sequencing for advanced equipment and economizer control, ensuring tuned comfort, proper ventilation, and peak energy performance.



SPECIFICATIONS

Power

Hardwire 24VAC; 50 mA

Ranges

Operating Range -20°F to 160°F

Operating Humidity (%RH) 5 to 90% RH

External Temperature Range -20°F to 180°F

Size

Inch H 5.2 x W 3.6 x D 1.1

mm H 63.5 x W 63.5 x D 19.05

Vertical Mounting

Outputs

(A1) 0-10VDC

(A2) 0-10VDC

(E) 24VAC

(Y, W, G, Y2, W2) 24VAC

Inputs

(S1) 0-10VDC

(S2) 0-10VDC

(T1) 10K Type II (Included)

(T2) 10K Type II (Included)

(T3) 10K Type II (Included)

FEATURES

Economization Management

- Advanced algorithms which during a cooling cycle compare the outside air temperature to the desired space temperature. Allowing for free and economical cooling of the space with little to no energy usage.

Indoor Air Quality Control

- A combination of intelligent algorithms ensures that clean, healthy, and properly conditioned air is delivered into the occupied space..

Face and Bypass Damper and Modulating Valve Control

- The space temperature is maintained through discharge air temperature managed. Either directed the mixed air through the cooling or heating coil with a Face and Bypass Damper or modulating a 2- or 3-way valve to vary the flow of water through a coil.

Installation and Configuration

- The PEARL only requires three (3) standard thermostat wires between it and your Pelican thermostat. Compatible with all industry standard unshielded thermostat wiring up to 500 feet between devices. Configuration is accomplished through the Pelican Web App.

Historical Data

- All temperatures (outside, supply, return, and conditioned space), CO2 levels, Face and Bypass positions, valve positions, etc., can be viewed in real-time online via the Pelican Web App. Two years of historical tracking of trend data is stored and viewable on online historical graphs.

Certified

- California Energy Commission Certified
- California Title 24 Compliant
- ASHRAE Compliant

