

PEARL Economizer

+ ACCESSORY

Outside Air Damper management for a Pelican Thermostat. (Only compatible with Pelican Thermostats: TS200, TS250, TS200H, TS250H).

+ ECONOMIZATION MANAGEMENT

Combining the PEARL with a Pelican TS200 or TS200H delivers complete Internet-enabled economizer control. Pelican uses outside air temperature, supply temperature, space temperature, thermostat set point, and the demand in the space to intelligently decide when to use outside air.

+ INDOOR AIR QUALITY CONTROL

The PEARL has built-in Internet Enabled fault detection and diagnostic feedback. By monitoring space, supply, and outside temperatures, and the outside damper position, the PEARL is able to send an alarm if the HVAC equipment or the outside air damper fails. Alarms are sent via email, text, and/or displayed on the Pelican Web App.

+ INSTALLATION AND CONFIGURATION

The PEARL only requires three standard thermostat wires between it and a Pelican thermostat. Compatible with industry standard unshielded thermostat wiring up to 500 feet between devices. Configuration is accomplished through a single one-button calibration process. The PEARL goes through a self testing and adjustment algorithm. Adjustments of default settings are done through the Pelican Web App.

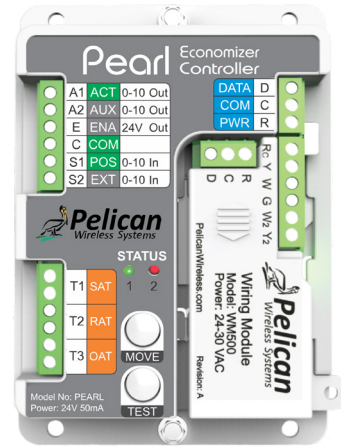
+ HISTORICAL DATA

All temperatures (outside, supply, return, and conditioned space) and CO2 levels can be viewed in real-time online via the Pelican Web App. Damper position, calls for Heat, Cool, and/or Fan can also be viewed online. 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

Designed and assembled in the USA
5-Year Limited Warranty



Specifications

POWER

Hardwire 24VAC; 50 mA

OUTPUTS

(A1)	0-10VDC (Actuator)
(A2)	0-10VDC (VFD)
(E)	24VAC (Exhaust Fan)
(Y, W, G, Y2, W2)	24VAC

INPUTS

(S1)	0-10VDC (Actuator)
(S2)	0-10VDC (Future Use)
(T1)	10K Type II (Supply Air)
(T2)	10K Type II (Return Air)
(T3)	10K Type II (Outside Air)

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	

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