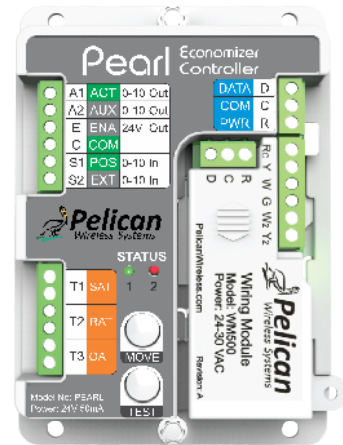


PEARL Advanced Controller

- + ACCESSORY**
Advanced equipment controller accessory compatible with all Pelican thermostats.
- + ECONOMIZATION MANAGEMENT**
Combines with a Pelican thermostat for complete, Internet-enabled economizer control. Uses outside air temperature, supply temperature, space temperature, thermostat set-point, and real-time demand to optimize ventilation and energy savings.
- + DEMAND BASED VENTILATION AND AIR QUALITY CONTROL**
When paired with a CO2 Pelican thermostat, the PEARL continuously monitors occupancy and automatically adjusts ventilation based on real-time demand. It also monitors space, supply, and outside temperatures, and damper position. Fault alarms—such as HVAC or outside air damper failures—are sent automatically via email, text, and the Pelican Web App.
- + ADVANCED EQUIPMENT MODULATION**
Provides precise control of variable frequency drives (VFDs), hot or chilled water valves, and other advanced HVAC equipment. The PEARL dynamically modulates outputs based on real-time conditions to maintain optimal performance and energy efficiency.
- + SIMPLE INSTALLATION & CONFIGURATION**
Requires only three standard thermostat wires (up to 500 feet, unshielded). Features one-button calibration with automated self-testing and tuning. All settings can be adjusted via the Pelican Web App.
- + REAL-TIME & HISTORICAL DATA**
View temperatures (space, supply, return, outside), damper position, HVAC calls, and CO2 levels live Online. Access up to two years of trend data through interactive graphs.
- + CERTIFIED FOR COMPLIANCE**
 - California Energy Commission Certified
 - California Title 24 Compliant
 - Follows ASHRAE Standards

Designed and assembled in the USA

5-Year Limited Warranty



Specifications

POWER

Hardwire 24 VAC, 60 Hz, 50 mA

OUTPUTS

(A1)	0-10 VDC
(A2)	0-10 VDC
(E)	24 VAC, 2.0A max

INPUTS

(S1)	0-10VDC
(S2)	0-10VDC
(T1)	10K Type II
(T2)	10K Type II
(T3)	10K Type II

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

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