

PEARL - Expansion Modulate

This accessory adds two additional modulating outputs to the PEARL, enabling precise heating and cooling modulation to achieve a target discharge air temperature.

The PEARL Expansion Module is an optional accessory is designed to expand functionality only when required for specific HVAC equipment, keeping costs down for our customers who do not require the additional outputs.



SPECIFICATIONS

Power

Hardwire 24VAC; 50 mA

Ranges

Operating Range -20°F to 160°F

Operating Humidity (%RH) 5 to 90% RH

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

Outputs

(A3) 0-10VDC

(A4) 0-10VDC

(C) VDC COMMON

3-Pin Power & Communication

(R) 24 VAC

(C) COMMON

(D) DATA

FEATURES

Modulating Cooling Management

- With the expansion modulate installed, the PEARL can now provide full modulating cooling management to a target discharge air temperature. The target auto-resets based on how much cooling demand the Pelican TC thermostat indicates the room has.

Modulating Heating Management

- With the expansion modulate installed, the PEARL can now provide full modulating heating management to a target discharge air temperature. The target auto-resets based on how much heating demand the Pelican TC thermostat indicates the room has.

Installation and Configuration

- The PEARL and its expansion modulate only requires three standard thermostat wires between them and a Pelican TC thermostat. Compatible with industry standard unshielded thermostat wiring up to 500 feet between devices. Configuration is accomplished through the Pelican Connect™ web-app.

Historical Data

- All data points are tracked through the Pelican Connect™ web-app for full testing and confirmation of equipment operation. Two years of historical tracking of trend data is stored and viewable.

Common Usage

- Modulating Compressor (1-5 VDC)
- Modulating Gas Burner (0-10 VDC)
- Modulating Chilled Water Valve (2-10 VDC)
- Modulating Hot Water Valve (2-10 VDC)
- Modulating Electric SCR Heater (0-10 VDC)

