

## TCM1 Wireless 24VAC Controller

The TCM1 has two primary applications:

- 1) Used in hotel rooms with PTAC units which currently do not have wire running between the unit and a thermostat. Use the TCM1 to control the 24VAC PTAC unit and an RT1-DC as a battery-powered remote wireless thermostat on the wall.
- 2) Applications where there are zone dampers, but no wire running from the damper actuator to a thermostat. Use the TCM1 to control the 24VAC damper actuator and either an RT1-AC or RT1-DC remote wireless thermostat on the wall.

### + MESH WIRELESS NETWORK

The TCM1 communicates wirelessly with a GW400 to reach the Internet. Each TCM1 has built-in state-of-the-art wireless mesh network communication and repeating.

### + FAULT ALARMING

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

### + WEB APP

Connecting a TCM1 to a RT1-DC or RT1-AC is done online through the Pelican Web App. Management and scheduling is also available through the Web App.

### + HISTORICAL TREND DATA

Online viewable historical data on space temperature, setpoints, HVAC demand, and fan demand.

### + INSTALLATION

The TCM1 is a 24VAC control module that can be installed directly inside a PTAC unit or at a 24VAC damper actuator. The TCM1 will control the connected devices and is configured through the Pelican Web App.

NOTE: This device cannot be installed inside of a metal rooftop HVAC unit. Metal enclosures weaken wireless signals.

**Designed and assembled in the USA**  
**5-Year Limited Warranty**



### Specifications

#### POWER

Hardwire: 24VAC, 60Hz; 50 mA  
 Voltage Range: 23 - 30VAC  
 Relay Current: 1.0A running

#### WIRING

Conventional: R, RC, W, W2, Y, Y2, G, C  
 Heat Pump: R, RC, O/B, AUX, Y, Y2, G, C  
 Damper Actuator: Y/Y2 - 24VAC CONTROL  
 W/W2 - 24VAC REHEAT

#### SYSTEM PROTECTION

Four-minute Compressor Short-cycle Protection  
 Temporary Schedule Override  
 Auxiliary/Emergency Heat Efficiency Algorithm  
 Keypad Lockout  
 Trend Data Analytics and Fault Monitoring

#### COMPATIBILITY

24VAC gas, electric, or oil heating systems.  
 Conventional and Heat Pump

#### TCM1 RANGE

Operating Range	-4°F to 122°F
Differential Temperature	±0.5°F
Operating Humidity (%RH)	5 to 90% RH; non-condensing
Storage Temperature	-20°F to 160°F

#### SIZE

Inch	H 3.5 x W 5.9 x D 1.5
mm	H 89 x W 150 x D 38
Vertical Mounting	

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