

Commercial Connected Thermostat - TC Series

The Pelican Commercial Connected Thermostat provides customers with virtual indoor climate management. The TC Series Thermostats deliver on advanced energy efficiency, built-in notifications, and fine tuned comfort. Coupled with the Pelican Web App, the TC Series of Thermostats track space temperature and HVAC operational data in real-time and historically.



SPECIFICATIONS FOR ALL TC MODELS

Product Name	Commerical Connected Thermostat
Operating Range	-20°F to 122°F
Operating Humidity (%RH)	5% to 90 % Relative Humidity (non-condensing)
Temerature Deadband	3°F setting, auto-adjusting to 5°F
Storage Temperature	-20°F –160°F
Wireless Frequency	2.4 GHz Mesh Networking
Wireless Standards	IEEE 802.15.4
Hardwire Power	24VAC, 60Hz; 105 mA
Operating Voltage Range	23 - 30 VAC
FCC Compliance	Class B part 15
Conventional Wiring	R, C, W, W2, Y, Y2, G
Heat Pump Wiring	R, C, O/B, AUX, Y, Y2, G
Dimensions	7.25 x 3.5 x 1.25-in (184 x 89 x 32 mm)
Mounting	Vertical Mount

INDIVIDUAL TC MODELS SPECIFICATIONS

Part Number	TC1	TC2	TC3	TC4
Humidity Sensor	-	Yes	-	Yes
CO ₂ Sensor	-	-	Yes	Yes
Relay Current Rating	2.0A running (Y, Y2, W, W2, G)	1.0A running (Dh & Hu)	2.0A running (Y, Y2, W, W2, G)	1.0A running (Dh & Hu)

Humidity Sensor Specifications

- Humidify setting: 10 - 80% RH
- Dehumidify setting: 20 - 90 RH

CO₂ Sensor Specifications

- 400 - 2000 PPM detection range.
- +/- 50 PPM accuracy at 600 PPM and 1000 PPM, auto-calibrating.

Humidity Sensor Data

- Humidity analytics
- Historical humidity level tracking

CO₂ Sensor Data

- High CO₂ alerts available in the web app and, optionally, on the thermostat.
- Historical CO₂ level tracking



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FEATURES FOR ALL TC MODELS

Wireless Mesh Network

- TC Thermostats communicate over Pelican’s wireless. Install a Pelican Gateway to connect the wireless network to the Internet. Each TC Thermostat has built-in state-of-the-art wireless mesh network auto-healing and repeating capabilities.

Fault Alarming

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

Web-App

- Virtual and central management of TC Thermostats are provided for free on all smart phones, tablets, and PCs.
- Directly manage thermostat temperature levels through the web-app.
- Designed for intuitive control over multiple thermostats.

Historical Trend Data

- Online viewable historical data of space temperature, set-points, HVAC operation, and fan.

Installation

- Industry standard HVAC terminals utilize existing thermostat wire.
- Included with the TC Thermostats are Pelican’s innovative limited wiring relay pack used in applications where there are only three (3) wires to the HVAC unit.

Scheduling

- Through the Pelican Web App you can schedule the TC Thermostats for daily, 5-2, or 7-day schedules. Thermostats can also be scheduled as groups, for simple multi-thermostat management.

Slim and Sleek

- The TC Thermostat’s design provides both a simple touch interactive experience while disappearing on the wall.

System Protections

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

Compatibility

- 24VAC Conventional
- Heat Pump
- 4-Pipe
- 2-Pipe
- Pelican Zone Damper Control



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