

T9000 Series Wireless PTAC/PTHP Thermostat

PRODUCT DATA



APPLICATION

The patented T9000 is the most flexible thermostat solution on the market today. A two-part system, it provides precision temperature control without the installation difficulties and expense of wiring. Battery powered, the T9000 uses unlicensed 900MHz RF to communicate with one or more control nodes which are installed at the HVAC equipment. The battery operated thermostat section is simply mounted on the wall with no need for wiring. This system is unique in that it is the only thermostat designed for simultaneous control of unrelated, multiple heating and cooling HVAC loads through a single thermostat, creating a virtual central heating and cooling control system.

Packaged Terminal Air Conditioner (PTAC) and Heat Pump (PTHP) equipment are common commercial and residential air conditioning solutions. The equipment integrates both heating and cooling capability. Unit mounted thermostat controls integrated within the equipment itself however exhibit inferior temperature control, often dramatically over and under shooting the desired room temperature.

Occupants may struggle to find and maintain a comfortable room temperature. Moving the thermostat control out of the equipment and into the living space improves comfort and can save energy as well. Studies have shown that precision temperature control alone can provide 12% in energy savings — a unique circumstance where both greater comfort and savings are expected. Setting the temperature back when unoccupied can add substantially more savings.

The T9000 provides superior thermostat control in a wide variety of PTAC/PTHP and other challenging HVAC applications.

FEATURES

- **Simple to understand controls.**
- **Styling for home, office, or hotel applications.**
- **Digital display of room temperature, and user set point temperature.**
- **Easy pushbutton adjustment of functions.**
- **Displays temperature in °F or °C.**
- **Accommodates external energy management inputs such as occupancy sensors and switches.**
- **Battery powered, no control wiring needed.**
- **Adjustable maximum heating and minimum cooling setpoint limits.**
- **Multiple PTAC/PTHP unit control from a single thermostat.**
- **Front desk room HVAC control capable**
- **Demand Response control capable.**
- **Many other possible applications.**

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SPECIFICATIONS

Thermostat Enclosure:

High impact polycarbonate & ABS blend — 2-piece vented housing. Screw-mount back plate, snap on cover. 5" x 5" x 1"

Remote Control Node (RCN):

PCB with pull-off screw terminals. Screw mount using #6 screws. 4.75" x 3.0" x 0.80"

Ambient Ratings:

Temperature
 - Operating Range: 0°C to 45°C
 - Humidity Range 5 to 95% rh, non-condensing

Communication:

- 916.5 MHz Amplitude Shift Keyed
 - Packet Protocol ANSI 709.1-1999

Control Methodology:

On/Off - control typically $\leq 1.5^\circ\text{F}$ at 50% duty cycle

Setpoint Range: 50°F to 99°F (10°C to 37.2°C)

Temperature:

- Accuracy, $\pm 0.5^\circ\text{F}$
 - Display Resolution, 1°F

Supply Voltages:

- Thermostat: 2 or 4 AA batteries
 - RCN: 24vac Class II control voltage

RCN Output:

Pilot duty solid-state relay outputs @ 0.5A max.

RCN Wiring:

Low-voltage pull-off screw terminals

Energy Management Inputs:

(2) Dry form-A contacts with 12vdc pull-up

