

Wi-Fi Smart Devices

Wi-Fi Touchscreen Thermostat — PCT513



Wi-Fi



Amazon Alexa



Google Home

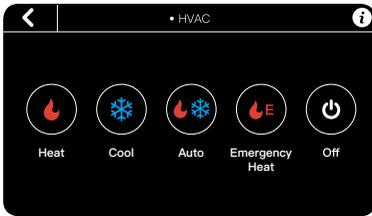


Zone Sensor

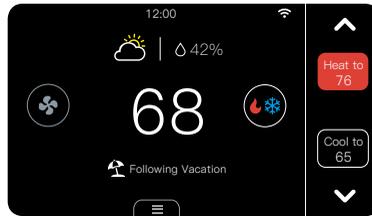
Touchscreen Smart Thermostat

SmartPhone

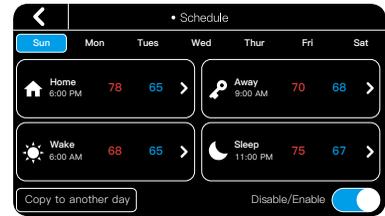
Smart HVAC Control



2H/2C Conventional & 4H/2C Heat Pump



Automatic heating and cooling changeover



Flexible 4-period/7-day Scheduling

New Comfort Experience



Touch Screen
4.3" TFT LCD Display



Voice Control
Works with Alexa & Google Home



Remote Zone Sensor
Scattered multi-sensors enable location-based temperature control



Geofencing
Know when you leave or return for better comfort and energy saving



Weather Forecast
5-day local weather forecast



Smart Warm-up
Preheat or precool before you get home



Smart Alerts
Heating or cooling alerts and air filter change reminders



Vacation Mode
Run your system economically when you are on vacation



Open API
Device-level and cloud-level API for system integration

Main Features

Basic HVAC Control

- 2H/2C conventional or 4H/2C Heat Pump system
- 4–period/7–day scheduling on the device or through the APP
- Multiple HOLD options
- Periodically circulates fresh air for comfort and health
- Automatic heating and cooling changeover

Advanced HVAC Control

- Remote Zone Sensors for location–based temperature control
- Geofencing: know when you leave or return for better comfort and energy saving
- Preheat or precool your house before you get home
- Run your system economically while on vacation
- Compressor short cycle protection delay

User Interaction

- 4.3” TFT LCD touchscreen for comprehensive information display and easy operation
- Voice control: Amazon Alexa and Google Home
- System status indicated by different backlight colors: Red for heat–on, Blue for cool–on
- Backlight brightness level adjustable
- Screen lights up when movement detected
- Intuitive UI to ease the operation even without manual

Information & Notification

- Weather forecast: display 5–day local weather
- Indoor humidity sensing
- Multi–room temperature display
- Air Filter change reminders
- Unusual heating or cooling alert

Installation & Setup

- Power adapter available with no requirement for a C–Wire
- Interactive wizard guides you through the quick setup
- Built–In level for mounting
- Multi–level keypad lockout for special occasions

Smart IoT Features

- Supports Wi–Fi 802.11 B/G/N 2.4
- Control and setup the thermostat remotely using an APP or Web portal
- Access to multiple thermostats from a single APP or Web portal
- Over–the–Air firmware upgrade
- Private cloud guarantees data privacy
- Device–level and cloud–level API available for integration with 3rd party Cloud

PCT513 Technical Specifications

HVAC Control Functions	
Compatible Systems	<ul style="list-style-type: none"> • Conventional (2H/2C) • Heat Pump (4H/2C) • Supports natural gas, electric, hot water, steam or gravity, gas fireplaces (24 Volts), oil heat sources
System Mode	<ul style="list-style-type: none"> • Heat, Cool, Auto, Off, Emergency Heat (Heat Pump only)
Fan Mode	<ul style="list-style-type: none"> • On, Auto, Circle
Advanced	<ul style="list-style-type: none"> • Setting temperature locally or remotely • Auto–changeover between heat and cool mode (System Auto) • Compressor protection time is available for select • Failure protection by cutting off all circuit relays after power outage
Auto Mode Deadband	<ul style="list-style-type: none"> • 3° F
Temp. Setpoint Span	<ul style="list-style-type: none"> • 1° F
Humidity Accuracy	<ul style="list-style-type: none"> • ±3% Accuracy through the range of 20% RH to 80% RH
Wireless Connectivity	
Wi–Fi	<ul style="list-style-type: none"> • 802.11 b/g/n @ 2.4GHz
OTA	<ul style="list-style-type: none"> • Over–the–Air Upgradable via Wi–Fi
Radio	<ul style="list-style-type: none"> • 915MHZ
Physical Specifications	
LCD Screen	<ul style="list-style-type: none"> • 4.3–inch color touch screen; 480 x 272 pixel display
LED	<ul style="list-style-type: none"> • 2–color LED (Red, Green)
C–Wire	<ul style="list-style-type: none"> • Power adapter available with no requirement for a C–Wire
PIR Sensor	<ul style="list-style-type: none"> • Sensing Distance 4m, Angle 60°
Speaker	<ul style="list-style-type: none"> • Click sound
Data Port	<ul style="list-style-type: none"> • Micro USB
DIP Switch	<ul style="list-style-type: none"> • Power selection
Electrical Rating	<ul style="list-style-type: none"> • 24 VAC, 2A Carry; 5A Surge 50/60 Hz
Switches/Relays	<ul style="list-style-type: none"> • 9 Latching type relay, 1A maximum loading
Dimensions	<ul style="list-style-type: none"> • 135(L) × 77.36 (W) × 23.5(H) mm
Mounting Type	<ul style="list-style-type: none"> • Wall Mounting
Wiring	<ul style="list-style-type: none"> • 18 AWG, Requires both R and C wires from the HVAC System
Operating Temperature	<ul style="list-style-type: none"> • 32° F to 122° F, Humidity range: 5%–95%
Storage Temperature	<ul style="list-style-type: none"> • –22° F to 140° F
Certification	<ul style="list-style-type: none"> • FCC
Zone Sensor	
Dimension	<ul style="list-style-type: none"> • 62(L) × 62 (W) × 15.5(H) mm
Battery	<ul style="list-style-type: none"> • Two AAA batteries
Radio	<ul style="list-style-type: none"> • 915MHZ
LED	<ul style="list-style-type: none"> • 2–color LED (Red, Green)
Button	<ul style="list-style-type: none"> • Button for join network
PIR	<ul style="list-style-type: none"> • Detect occupancy
Operating	<ul style="list-style-type: none"> • Temperature range: 32–122° F (Indoor)
Environment	<ul style="list-style-type: none"> • Humidity range: 5%–95%
Mounting Type	<ul style="list-style-type: none"> • Tabletop stand or Wall mounting
Certification	<ul style="list-style-type: none"> • FCC