

Products

– Comfort / Thermostat

PCT533
-W-TY/WB

Tuya Wi-Fi Thermostat with remote sensors and humidity control



Description

The Wi-Fi thermostat makes it easier and smarter to control your household temperature. With remote zone sensors, you can balance hot or cold spots throughout the home to achieve best comfort.

Features

- Works with most 24V heating and cooling systems
- 4.3 in. full-color LCD touchscreen
- The gently curved 2.5D edge softens the device's profile, allowing it to blend harmoniously into your living space
- 7-day customizable Fan/Temp programming schedule
- Multiple HOLD options: Permanent Hold, Temporary Hold, Follow Schedule
- Fan periodically circulates fresh air for comfort and health in circulate mode
- Preheat or precool to reach the temperature at the time you scheduled
- Provides Daily/Weekly/Monthly energy usage
- Prevent accidental changes with lock feature
- Send you Reminders when to perform periodic maintenance
- Adjustable temperature swing can help with short cycling or save more energy
- Support 1-wire or 2-wire Humidifier / dehumidifier (HUM, DEHUM)

Technical Specifications

Compatibility	
HVAC systems	• Works with most 24V heating and cooling systems, including furnaces, air conditioners, boilers, and heat pumps with either forced air or radiant delivery. • Conventional: 2-stage heating and 2-stage cooling HVAC systems • Heat Pump: 2-stage heating, 2-stage cooling, 2-stage Auxiliary or Alternative heating, Emergency heat • Supports Dual Fuel switching/Hybrid Heat • 1-wire or 2-wire HUM, or DEHUM
Wiring Terminals	
Rc	• 24VAC power from cooling transformer
Rh	• 24VAC power from heating transformer
C	• 24VAC common
W1	• 1st stage Primary heating relay in conventional system / Auxiliary or Alternative 1st stage heat in heat pump system
W2	• 2nd stage Secondary heating relay in conventional system / Auxiliary or Alternative 2nd stage heat in heat pump system / Emergency heat
Y1	• 1st stage Primary compressor contactor
Y2	• 2nd stage Secondary compressor contactor
G	• Fan relay
O/B	• Changeover valve for heat pumps
CWA	• C-wire Adapter terminal
ACC1	• Accessory support for humidifiers or dehumidifiers
ACC2	• Accessory support for humidifiers or dehumidifiers
Connectivity	
Wi-Fi	• 802.11 b/g/n @ 2.4GHz
BLE	• For Wi-Fi Pairing
Radio	• 915MHz / Up to 6 Remote Sensors
Physical Specifications	
Display	• 4.3 in. full-color LCD touchscreen • 480*800 pixel display
Sensors	• Occupancy • Temperature • Humidity
Power	• 24 VAC, 50/60 Hz
Temperature range	• Desired Temperature: 40° to 90°F (4.5° to 32°C) • Sensitivity: +/- 1°F (+/- 0.5°C) • Operating: 14° to 122°F (-10° to 50°C)
Humidity range	• Sensitivity: +/- 5% • Operating: 5% to 95% RH (non-condensing)
Dimensions	• Thermostat: 143 (L) × 82 (W) × 21 (H) mm • Trim plate: 170 (L) × 110 (W) × 6 (H) mm

TF card slot	• For firmware updates and log collection • Format requirement: FAT32
Mounting Type	• Wall Mounting
Accessories	• Trim plate • C-wire Adapter (Optional)

Remote Zone Sensor	
Battery	• 2*AAA batteries
Radio	• 915MHz
LED	• 2-color LED (Red, Green)
Sensors	• Temperature • Humidity
Mounting Type	• Tabletop stand or Wall mounting