



TS2501 Wi-Fi Smart Thermostat



TS1921 Occupancy Sensor
(Optional)



TS2104 C-Wire Adapter
(Optional)

Wi-Fi SMART THERMOSTAT

OVERVIEW

The TrickleStar Wi-Fi Smart Thermostat will help you save money on your annual heating and cooling costs. Our TS2501 model is compatible with most HVAC systems including heating, cooling, multistage, and heat pump systems. With Wi-Fi connectivity and control through the TrickleStar Portal and TrickleStar App, or through your Google Assistant or Amazon Alexa systems, you can control it from anywhere. The handy design of this thermostat makes installation easy; you can either install it by yourself or your preferred professional contractor. You can even enhance the power of this thermostat with added occupancy sensors which can detect both temperature and presence, to maximize the coverage and comfort level at your desired zones.

CONNECTED SOLUTION

The Wi-Fi Smart Thermostat brings intelligence to household HVAC systems by transmitting valuable energy data.

With the accompanying TrickleStar App (iOS or Android), users can check the history of, as well as the future forecasts for, their energy usages and the associated costs. They can also control the temperature and manage the settings for their Wi-Fi Smart Thermostat from anywhere.

Similarly, utilities can monitor and forecast the energy usage of the connected HVAC systems via the TrickleStar Portal.

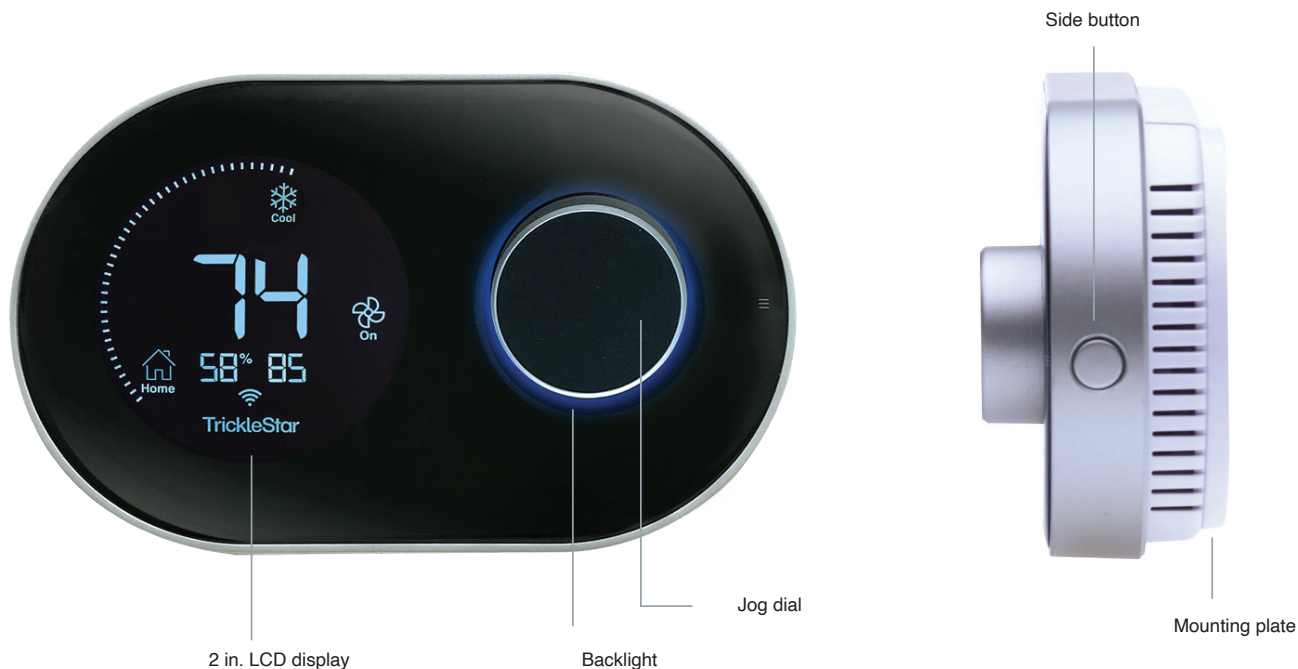
PRODUCT WARRANTY

Three-year limited product warranty

KEY FEATURES

- Scheduling
- Home, Away and Sleep setting modes
- Access and control from anywhere via the TrickleStar Portal and TrickleStar App (iOS and Android)
- Compatible with most HVAC systems
- 2.4 GHz Wi-Fi connectivity
- Service reminders and energy usage report via TrickleStar Portal and TrickleStar App
- Built-in temperature and humidity sensors
- Connects up to a maximum of six occupancy sensors

FEATURES



ARCHITECTURE



ACCESSORIES



TS1921 Occupancy Sensor (Optional)



TS2104 C-Wire Adapter (Optional)

SYSTEM COMPATIBILITY

- 2H/2C conventional system
- 4H/2C heat pump system
- Conventional electric and furnace systems
- Heat pump system with reversible O or B value
- Rc and Rh terminals for systems with separate heating and cooling power supply
- Accessory control (humidifier, dehumidifier or ventilator)

POWERING METHOD

Wired 24 V AC (18~30 V AC, 60 Hz) through terminals C and Rc

C-Wire Adapter is sold separately

CONNECTIVITY

802.11 b/g/n @ 2.4 GHz

Bluetooth Low Energy (BLE) Connection for Occupancy Sensor

SENSORS

Built-in Thermostat Sensor

- Measure temperature
- Measure humidity

Occupancy Sensor

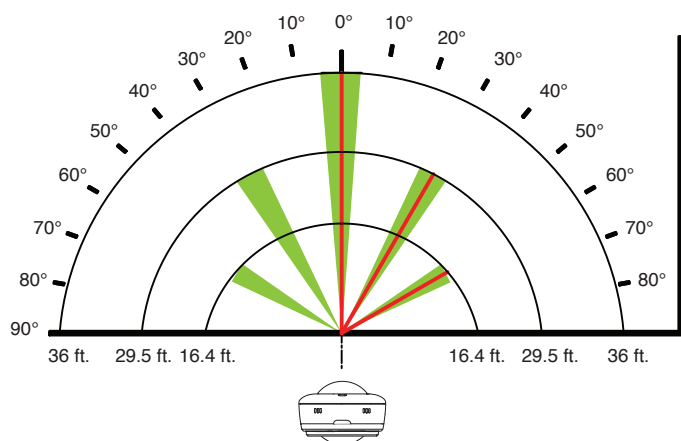
- Measure temperature remotely
- Detect occupancy
- Mount on wall or on a stand
- 36 ft. detection range

ENVIRONMENTALLY-FRIENDLY FEATURES

- Recyclable packaging
- Mercury-free
- Arsenic-free
- PVC-free
- PBT-Free
- RoHS compliant

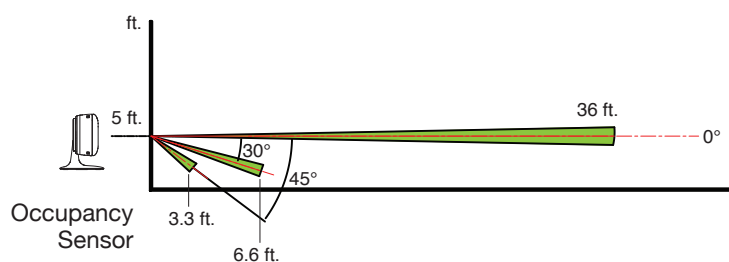
OCCUPANCY SENSOR DETECTION RANGE DIAGRAM

Horizontal range



Occupancy Sensor

Vertical range



Occupancy Sensor

PRODUCT SPECIFICATIONS

TEMPERATURE RANGE

Desired Temperature	: 41°F to 95°F (5°C to 35°C)
Display	: 32°F to 104°F (0°C to 40°C)
Sensitivity	: 1°F (1°C)
Operating	: 32°F to 122°F (0°C to 50°C)

HUMIDITY RANGE

Display	: 0% to 99%
RH Sensitivity	: 1%
Operating	: 5% to 95% RH (non-condensing)

STORAGE

-4°F to 140°F (-20°C to 60°C)
5% to 95% RH (non-condensing)

PRODUCT DIMENSION (Width/Height/Depth) (Approx.)

Thermostat	: 5.3 in. x 3.3 in. x 1.5 in.
Occupancy Sensor	: 2.4 in. x 1.9 in. x 1.1 in.
C-Wire Adapter	: 3.1 in. x 2.4 in. x 1.0 in.

PRODUCT WEIGHT (Approx.)

Thermostat	
- Thermostat	: 6.5 oz.
- Mounting Plate	: 1.2 oz.
- Trim plate	: 1.5 oz.
Occupancy Sensor	: 1.4 oz.
C-Wire Adapter	: 2.7 oz.

DISPLAY

2 in. LCD display

WHAT'S INCLUDED

- Thermostat with mounting plate
- Trim plate
- Screws and drywall plugs
- Extra jumpers
- Wire labels
- Quick Start Guide

WORKS WITH

Amazon Alexa
Google Assistant

APPROVALS

FCC, IC (REL) - Canada, RoHS Compliant



CA PROP 65

California Proposition 65 Compliant

MODEL INFORMATION

TS2501	Wi-Fi Smart Thermostat
TS1921	Occupancy Sensor
TS2104	C-Wire Adapter