

# Product Data Sheet

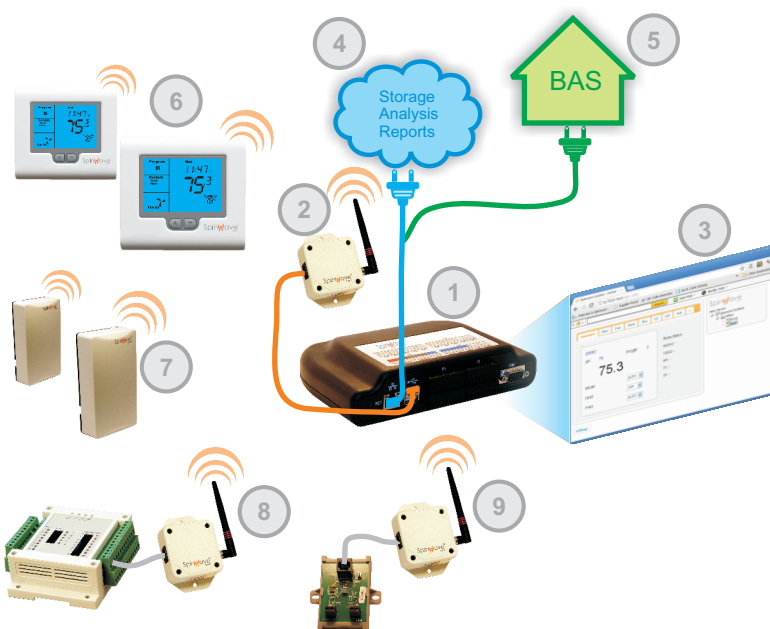
## SWC-TSTAT-3 Wireless Thermostat Controller



Spinwave Systems' Wireless Thermostat Controller (6) is a drop-in replacement for most commercial non-communicating thermostat, re-using the existing equipment wiring.

Thermostat functions and values are accessible remotely through embedded web pages (3) of the Mesh Gateway (1), via Modbus TCP communication (5) or through Cloud services (4).

The wireless thermostat controller is a full function wireless mesh device with integrated radio that can be configured to control heat pump systems, (with auxiliary or emergency heating if necessary), gas/oil heating systems with add on cooling, control high and low balance points as well as the number of heating and cooling stages needing precise control. It can even adapt to manage the number of fan speeds it must control.



## Main Features

**Install Quickly and Economically:** Wireless system can be installed with little or no disruption to operations. Superior range reduces the need to install additional repeaters.

**Flexible and Scalable:** System can grow from a few to hundreds of wireless devices. Wireless devices can be easily added, moved, or removed. Can control many types of heating, cooling or air conditioning system.

**Easy to Maintain:** Browser-based access simplifies maintenance and operation of remote sites. Built-in equipment run-time monitoring and remote access to thermostat functions and data.

**Multiple Interface Options:** The A3 mesh network interfaces to automation systems via Modbus TCP and Cloud Dashboards via its embedded Web Client (HTTP).

## Applications

### Energy Management

E.g. for schools, office buildings, small box retail, hotels, apartment buildings:

- Demand-based set-point adjustment
- Occupancy-based set-point reset
- Controlled and efficient season-changeover
- Remote monitoring of comfort, equipment performance and energy use
- Remote system operation and maintenance

## Order Information

**SWC-TSTAT-3:** Wireless Thermostat Controller

# Specifications

## Enclosure

- Flame proof plastic

## Installation

- Surface-mount

## Operating Conditions

- 32°F to 122°F (0°C to 50°C)
- 0% to 95% R.H. non-condensing

## Storage Conditions (Sensor)

- 32°F to 150°F (0°C to 65°C)
- 0% to 95% R.H. non-condensing

## Radio Characteristics

- 2.4GHz, IEEE 802.15.4
- Transmit: 20dBm
- Receiver Sensitivity: -95dBm
- Open field range: 3,500 ft/1km

## Outputs

- 5 Relay Outputs: 1A at 24VAC

## Accuracy

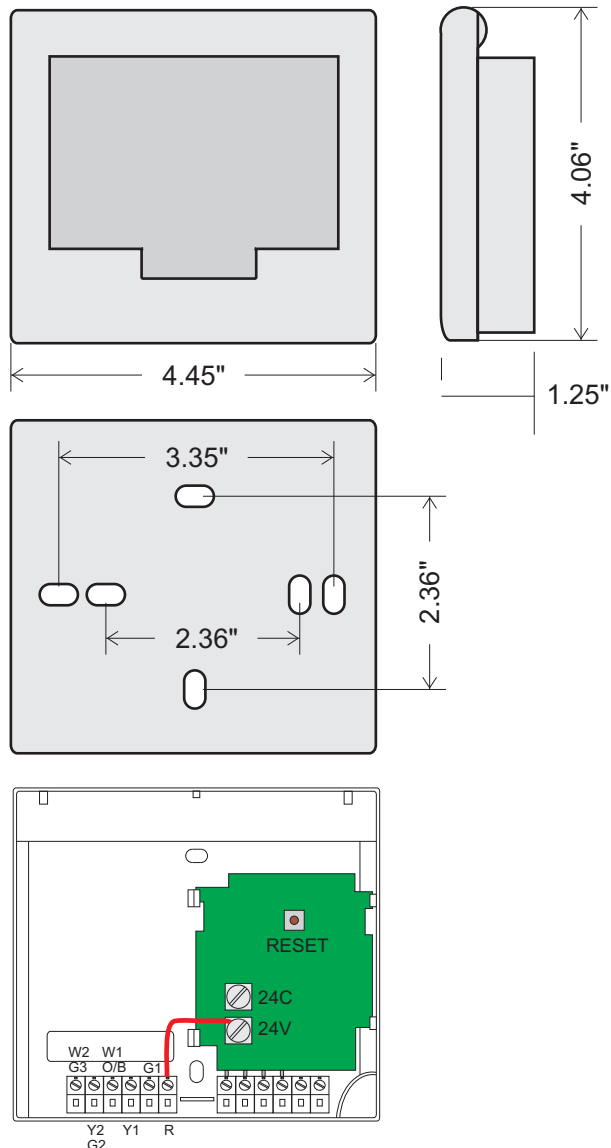
- +/- 0.3°C @ 25 °C (77°F)

## Power

- 24VAC, +/- 15%, 50/60Hz

## Features

- Auto Season Change Over
- Selectable programmable or manual mode
- Heat cool or heat pump (O/B) logic
- Add on & Emergency Heat Control
- High & Low balance points
- Single or 3 speed fan control
- Keyboard and/or Temperature Locks
- Adaptive Recovery (Optimized Start)
- Smart Fan logic for Commercial Control
- PIN protected menus (installer PIN)
- 24V powered with memory backup
- Celsius or Fahrenheit



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