



# Thermostat Control Module

Part No. FS-TCM



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## Overview

Fountain's Thermostat Control Module provides you with the ability to connect one of Fountain's Remote Thermostats (FS-TRW-32AC or FS-TRW-32DC) to a HVAC unit using a wireless connection. The TCM is the controller that gets installed at the HVAC unit\*. By using your Fountain Site Manager (Web App) you will connect the TCM to a Remote Thermostat, finalizing the wireless communication. Now you will be able to control your HVAC unit from a wireless thermostat, as if it was wired directly into the HVAC unit. We call this the complete wireless option because it provided you with a simple and innovative way to get a thermostat onto the wall without having to run any wires.

Initial TCM and Remote Thermostat configuration and ongoing schedule management is accomplished using Fountain's free Web App. The Web App provides intuitive programming without the need to learn complicated menus. In addition, historical temperature and HVAC usage can be saved and reviewed. By providing a graphical representation of the thermostat's operations, it gives you a powerful way to review and analyze your energy usage. With input of your power rates entered, you will always know the current operational cost of running your HVAC system. Fountain's solution enables you to adjust your schedule settings to reduce energy consumption and lower your energy costs. Our TCM w/ Remote Thermostat option also has the brainpower to continuously monitor the health of your HVAC systems. This advanced feature sends an immediate alert to authorized personnel via email or text message at the first sign of a problem.

## Features:

### Internet Programmable

- ☑ Free Basic subscription is provided to access all thermostat features
- ☑ Unique dedicated Web portal address
- ☑ Secure Internet connection for easy HVAC settings

### Wireless Control

- ☑ Connects directly to your existing HVAC system's wiring
- ☑ Communicates with Fountain Remote Thermostat (FS-TRW-32DC or FS-TRW-32AC)
- ☑ Communicates wirelessly to the Fountain Wireless Gateway(FS-Gateway) which is connected to the Internet via your router

### Smartphone and Browser Compatible

- ☑ Compatible with iPhone and Android phones and tablets
- ☑ Compatible with all standard browsers (Safari, Internet Explorer, Firefox)

### Advanced Alarm Notifications

- ☑ Notifications Delivered to active on-line users, via SMS text messages, or through email
- ☑ Automatically identifies service requirement due to any type of system failure

### Easy Installation\*

- ☑ Certified contractors will install Fountain's Thermostat quickly without needing to install special wiring
- ☑ Automatically self-connects to Gateway in seconds using secure encrypted technology

## Key Customer Benefits:

- ☑ Internet Programmable
- ☑ Wireless Control from Remote Thermostat
- ☑ Simplified Installation
- ☑ Reduced Energy Costs
- ☑ Allows Increased Productivity
- ☑ Decreased Maintenance/Operation
- ☑ Real-Time Monitoring and Analytical Reporting
- ☑ Energy Savings Tracking
- ☑ Increased Customer Satisfaction
- ☑ Advanced Alarm Notification
- ☑ User Friendly Interface
- ☑ 24/7 Email Customer Support
- ☑ Monday thru Friday, 9 – 5 PST Live Support
- ☑ Meets ENERGY Star and California Title 24 Guidelines
- ☑ 3 Year Warranty



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## Features Continued:

- z Installation wizard guides you through simple steps for setting up access and completing the installation
- z Compatible with new installations, replacement installations, and upgradeable systems

### 🔧 **Energy Efficient**

- z Graphical charts illustrate energy usage by your HVAC system
- z Historical usage information allows schedules to be modified to maximize energy efficiency
- z Preset adjustable schedules to save on energy costs when dwellings or facilities aren't occupied
- z Generate after hours usage reports to allow for customer bill back
- z Remote management and diagnosis to minimize service calls

### 🔧 **Remote Thermostat Keypad**

- z Increase and decrease temperature settings
- z Quickly change the fan and system settings with a simple push of a button
- z Display can be lighted via a button on the thermostat
- z Lock and unlock individual thermostats to prevent unwanted changes to thermostat settings

### 🔧 **TCM & Remote Thermostat Settings**

- z Universal programming from 7 day to non-programmable
- z 2 - 12 schedule periods per day
- z Alternate daily repeating program
- z Schedule disable/manual hold
- z Vacation Schedule
- z Single and multistage - up to 3H/2C H/P and 2H/2C Conventional
- z Fan programmable auto/on and 2 speed (Hi/Low)
- z Circulation fan mode
- z Adjustable temperature limits
- z Auto learning based on target cycle rate
- z Room temperature calibration and anticipation settings
- z Real-time clock automatically set from the Internet
- z Automatically updates Daylight Savings Time
- z Fahrenheit or Celsius temperature display

## Specifications:

### 🔧 **TCM Compatibility**

- z Compatible with most 24 VAC Controlled Gas, Oil, Electric, Heating and Cooling Systems
- z Conventional and heat pump compatible

### 🔧 **Electrical**

- z Power – hardwire 24 VAC; 50mA
- z Voltage – 23 to 30 VAC
- z Heat current – 1.0 A Running
- z Cool current – 1.0 A Running
- z Fan current – 1.0 A Running



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## Specifications Continued:

### 🔧 Wiring

- ⌘ Conventional terminals – R, RC, W, W2, Y, Y2, G, C
- ⌘ Heat pump terminals – R, RC, O/B, AUX/E, Y, Y2, G, C

### 🔧 System Regulation and Protection

- ⌘ Compressor short cycle protection
- ⌘ Temporary program override
- ⌘ Auxiliary or emergency heat
- ⌘ Keypad lockout

### 🔧 Remote Thermostat Range

- ⌘ 200 ft. wireless to Remote Thermostat (will repeat wireless through other Fountain products)
- ⌘ Setting temperature range (F) – heat: 40 F to 90 F; Cool: 50 F to 99 F
- ⌘ Setting temperature range (C) – heat: 4.5 C to 32 C; Cool: 10 C to 37 C
- ⌘ Differential temperature (F) + 0.5 F
- ⌘ Differential temperature (C) + 0.25 C
- ⌘ Operating humidity range (% RH) – 5 to 90% RH, non-condensing

### 🔧 TCM Size

- ⌘ Dimensions (in.) - 3 1/2 inches high x 5 7/8 inches x 1 1/2 inches deep
- ⌘ Dimensions (mm) - 89 mm high x 150 mm wide x 38 mm deep
- ⌘ Mounting - Horizontal
- ⌘ Display size - 4 square inches

For Specifications on Remote Thermostats (FS-TRW-32DC or FS-TRW-32AC) refer to the Remote Thermostat Datasheet



Designed and  
Assembled in  
the USA

\*Wireless **cannot** get through metal. The FS-TCM should not be installed in a location that encases it inside of metal.

