



**FOUNTEN**  
ENERGY PERFORMANCE

# Wireless Communicating Thermostat with Humidity Control

Part No. FS-STAT-32ACH

## Key Customer Benefits:

- Internet Programmable
- Wireless Control
- 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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## Overview

Founten's Wireless Communicating Thermostat with Humidity Control delivers a simple yet innovative solution to your property's energy management needs. The thermostat provides the ability to manage temperature and humidity in a single device. The integrated Wireless technology allows all of the features to be accessed by authorized personnel anywhere in the world via a Web Browser, Smartphone or Tablet. The easy to read display shows current temperature, humidity, and active settings. Initial thermostat configuration and ongoing schedule management is accomplished using Founten's free Web App. The Web App provides intuitive programming without the need to learn complicated menus. Founten

integrates Internet based Cloud Servers to maintain historical temperature, humidity and HVAC usage that can be saved and reviewed. By providing a graphical representation of the HVAC system's operations, it gives you a powerful way to review and analyze your energy usage. With power rates entered into the system, you will always know the current operational cost of running your HVAC system. Founten's solution enables central management of schedule settings to reduce energy consumption and lower energy costs. The thermostat also has the ability to continuously monitor the health of 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 and humidistat 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 wirelessly to the Founten 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, Chrome)
- **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 Founten's Thermostat quickly without needing to install special wiring
  - Replaces old thermostats and humidistats utilizing existing wiring
  - Automatically self-installs in seconds using secure encrypted technology
  - Special wiring capability allows installation with as few as 3 wires to control multi-stage HVAC systems



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## Features Continued:

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

### • Energy Efficient

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

### • Thermostat Keypad

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

### • Humidistat Settings

- Complete humidity control
- Minimum humidity setting with humidify output
- Maximum humidity setting with dehumidify output
- Cool Only dehumidify capability with condensation protection
- Humidity dead band protection
- Humidity safe range setting with notification alerts via email or text message
- Retrofit humidity control into existing installations without adding extra wires

### • Thermostat Settings

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



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## Specifications:

### • Electrical

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

### • Compatibility

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

Note: Humidifiers and Dehumidifiers with dry contact inputs will require the addition of a 24VAC dry contact relay between the humidity control output and the humidification equipment.

### • Wiring

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

### • System Regulation and Protection

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

### • Thermostat Range

- 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

### • 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

