



# Sensi™ Smart Thermostat 1F87U-42WF

Best Value Smart  
Thermostat 2019.



The award-winning Sensi Smart Thermostat keeps homeowners connected to comfort and keeps you connected to your customers. Our Contractor-On-Call feature puts your company information at your homeowners' fingertips.



## SAVE ABOUT 23% ON HVAC ENERGY<sup>1</sup>

Save money without compromising your comfort with features like geofencing, flexible scheduling and remote access.

## SMART ALERTS

Smart alerts notify homeowners of extreme temperature or humidity levels.

## EASY TO INSTALL

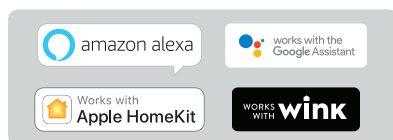
No c-wire required for most installations\* plus a built-in level for easy mounting.

## EASY TO CONNECT TO WI-FI

Easy step-by-step guide in the app to connect to Wi-Fi.

## SMART HOME COMPATIBLE

Compatible with smart home platforms Amazon Alexa, the Google Assistant, Apple HomeKit and Wink.



## CONTRACTOR-ON-CALL

The Sensi app stores your contact information so when your customer needs service, you're just a tap away. Register at [sensiregistration.com](http://sensiregistration.com).

## HUMIDITY CONTROL

Help homeowners stay comfortable with humidification/dehumidification control.

## MULTIPLE THERMOSTAT CONTROL

Easy management for schools and light commercial applications.

## CIRCULATING FAN

Improves air quality when a custom run time is set.



## DID YOU KNOW?

Up to 85% of Sensi customers replaced a working thermostat\*\*

Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Apple, the Apple logo, iPad, iPad Air, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. HomeKit is a trademark of Apple Inc. To control this HomeKit-enabled accessory automatically and away from home, an Apple TV with tvOS 10.0 or later or an iPad with iOS 10.0 or later and an iPhone or iPad with 10.0 or later is recommended. App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

\*A common wire (c-wire) is required for Apple HomeKit, heat only systems, cool only systems and heat pump without auxiliary heat.  
\*\*Recent research study conducted by Emerson.

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1 Energy savings calculated by comparing operation time for a nationwide sample of Sensi users with temperature adjustments averaging 40 vs. users with no adjustments. Savings vary based on equipment type/condition, insulation, climate & temperature adjustment size/frequency.



# Sensi Smart Thermostat

1F87U-42WF

## SPECIFICATIONS

### ELECTRICAL RATING

20 to 30 VAC, 50/60 Hz  
1.5 Amps maximum per terminal  
2.5 Amps maximum  
(all terminals combined)

### STANDARD SYSTEMS

Single-stage gas, oil, electric  
Single-stage heat pump  
Multi-stage gas, oil, electric  
Multi-stage heat pump

### SETPOINT RANGE

50°F to 99°F (10°C to 36°C)

### ACCESSORIES

Wallplate: F61-2663 (6.75" x 4.50")  
Thermostat guard: F29-0198

### RATED DIFFERENTIALS (@ 6°F / HR)

	Fast	Med	Slow
Heat (conventional gas/oil/elect):	0.5°F	0.75°F	1.9°F
Cool (central air):	0.9°F	1.2°F	1.7°F
Heat pump (heat and cool):	0.9°F	1.2°F	1.7°F
Heat pump (aux):	0.5°F	0.75°F	1.9°F

### COMPATIBILITY

Conventional heating and cooling system:

Heat pump\*, heat only and cool only systems:

### SENSI ALERT

High temperature:  
Low temperature:  
High humidity:  
Loss of heat/cool:

### Power Source

Battery (power sharing) or hardwired (c-wire)

Hardwired only (c-wire)

### Trigger

Above 99°F  
Below 45°F  
Above 70%  
Temp goes up or down 5°F during cycle

### DIMENSIONS

5.88" W x 3.75" H x 1.00" D

### STORAGE

-20° to 150°F (-29° to 65°C)  
0%-90% RH non-condensing

### OPERATING AMBIENT

32°F to +105°F  
(0°C to +41°C)

### OPERATING HUMIDITY

90% non-condensing max

### DISPLAY TEMPERATURE RANGE

32°F to +99°F (0°C to 37°C)

### TITLE 24 COMPLIANT

### ENERGY STAR CERTIFIED

\*The Sensi thermostat provides automatic dual fuel control without an outdoor sensor. A fossil fuel kit may be added if user selectable balance point settings are desired.

## ADVANCED FEATURES

### DUAL FUEL APPLICATIONS

Automatic staging for heat pump/gas furnace without the need for outdoor sensor or additional equipment.

### AUTO CHANGEOVER

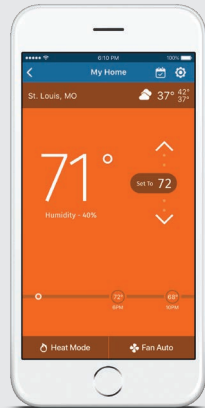
Automatically switches between heating and cooling within the set range.

### KEYPAD LOCKOUT

Ideal for light commercial applications – lock the thermostat keypad and keep the control from the Sensi app.

### BACKLIT DISPLAY

Easy-to-read screen in low light.



The app changes color to let you know at a glance whether the system is heating or cooling.

### REMOTE ACCESS

Set, change and program home comfort from anywhere.

### FLEXIBLE SCHEDULING

Program a schedule for each day of the week.

### LOCAL WEATHER

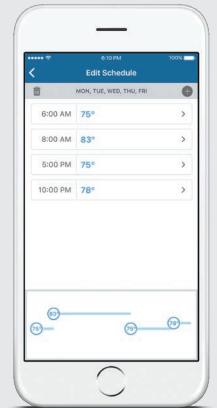
Get easy weather updates.

### HUMIDITY SENSOR

Displays indoor humidity on the thermostat and in the app.

### USAGE REPORTS

Usage reports monitor heating and cooling runtimes along with average humidity.



Model	Program Options			Max Stages Heat/Cool		Applications				Power Source		Selectable Performance Features						Comfort & Convenience Features								
Model Number	Wi-Fi Control/Smart Home Qualified	7 Day	Non-Programmable	Conventional	Heat Pump	Gas/Oil/Electric	3 Wire Zone	Millivolt	PTAC Compatible	Battery	Hardwired (24V)	Auto Changeover	Circulating Fan	EMR/ Early Start Program	Temperature Limits	Humidity Display	Dual Fuel Control	Remote Sensor	Filter Change Reminder	Auto DST Adjust	Keypad Lockout	Cont. backglow w/ Common	Permanent Memory	Usage Reports	Energy Star Certified	Hum/Dehum Control
1F87U-42WF	•	•	•	2/2	4/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

### TERMINAL DESIGNATIONS



#Thermostat has internal jumper on RC and RH. On two transformer systems, clip red jumper wire on thermostat.