

# Sensi™ Smart Thermostat

Best Value Smart Thermostat 2020



The award-winning Sensi Smart Thermostat keeps homeowners connected to comfort and keeps you connected to your customers.



1F87U-42WF

- SAVE ABOUT 23% ON HVAC ENERGY<sup>1</sup>**  
By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi customers saved about 23% on HVAC energy usage.
- HUMIDITY CONTROL**  
Help homeowners stay comfortable with humidification/dehumidification control.
- EASY TO INSTALL & CONNECT**  
No common wire (c-wire) required for most installations<sup>2</sup>  
Step-by-step guide in the Sensi app.
- USAGE REPORTS**  
Monitor current day and historical heating, cooling and fan runtimes right in the app.
- SMART HOME COMPATIBLE**  
Compatible with smart home platforms Amazon Alexa, the Google Assistant, Apple HomeKit<sup>3</sup> and SmartThings.

- 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).
- SMART ALERTS**  
Smart alerts notify homeowners of extreme temperature or humidity levels.
- MULTIPLE THERMOSTAT CONTROL**  
Easy management for schools and light commercial applications.
- CIRCULATING FAN**  
Air circulation may improve indoor air quality by helping to regulate temperature and prevent buildup of particles and mold.



## DID YOU KNOW?

Up to 85% of Sensi customers replaced a working thermostat<sup>4</sup>

<sup>1</sup> 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.  
<sup>2</sup> Based on survey results of 2,120 respondents that purchased and installed a Sensi thermostat in 2018, approximately 70% reported installing in 30 minutes or less. Adding a common wire may impact installation time.  
<sup>3</sup> Common wire (c-wire) is required for Apple HomeKit, heat only systems, cool only systems and heat pump systems.  
<sup>4</sup> Recent research study conducted by Emerson.  
 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. Google is a trademark of Google LLC. A trademark of Reviewed.com Used under license; Reprinted with permission. Copyright 2020, Reviewed.com. All Rights Reserved



# 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)

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:  
  
Apple HomeKit, heat pump\*, heat only and cool only systems:

#### SENSI ALERT

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

<b>Fast</b>	<b>Med</b>	<b>Slow</b>
0.5°F	0.75°F	1.9°F
0.9°F	1.2°F	1.7°F
0.9°F	1.2°F	1.7°F
0.5°F	0.75°F	1.9°F

#### 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

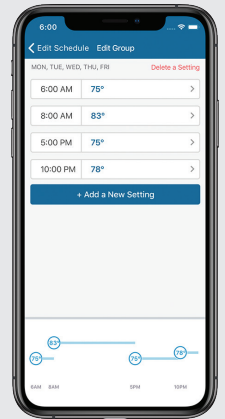
Get easy weather updates.

### HUMIDITY SENSOR

Displays indoor humidity on the thermostat and in the app.

### USAGE REPORTS

Monitor current day and historical heating, cooling and fan runtimes right in the app.



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 Control	Dual Fuel Control	Remote Sensor	Filter Change Reminder	Auto DST Adjust	Keypad Lockout	Cont. backglow w/ Common	Permanent Memory	Usage Reports	Energy Star Certified
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.

EMERSON.COM/SENSIPRO

The Sensi and Emerson logos are trademarks and service marks of Emerson Electric Co. ©2020. All rights reserved.

R-4552-13

