



1F87U-42WF

## Sensi Smart Thermostat

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

Sensi Partners get access to program benefits including homeowner leads, contractor branding, custom literature and free online training. Learn more at [emerson.com/sensipartner](https://emerson.com/sensipartner)

**Easy to install & connect**  
No common wire (c-wire) required for most installations<sup>1</sup> Step-by-step guide in the Sensi app.

**Contractor mode**  
With Contractor Mode, you can easily connect to every customer by registering thermostats individually or in batches.

**Contractor-on-call**  
Be the contractor on call in customers monthly usage reports, service reminders, smart alerts and in-app. Register at [sensiregistration.com](https://sensiregistration.com)

**Smart alerts**  
Notifies customers of extreme temperature and humidity levels.

**Humidity control**  
Help homeowners stay comfortable with humidification/dehumidification control.

**Service reminders**  
Customers receive notifications when routine maintenance needs to be done. The Sensi app will remind them when it's time for a new air filter and other HVAC maintenance.

**Save about 23% on HVAC energy<sup>1</sup>**  
By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi thermostat customers save about 23% on HVAC energy usage.

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

**Circulating fan**  
Air circulation may improve indoor air quality by helping to regulate temperature and prevent buildup of particles and mold.

**Keypad lockout & temperature limits**  
Maintain total control by setting temperature limits and disabling changes by others at the thermostat

**Smart home compatible**  
Compatible with smart home platforms Amazon Alexa, the Google Assistant, Apple HomeKit<sup>1</sup> and SmartThings.



<sup>1</sup> Common wire (c-wire) is required for Apple HomeKit, heat only systems, cool only systems and heat pump systems.

<sup>2</sup> Energy savings are calculated by comparing operation time for a nationwide sample of Sensi users with temperature adjustments averaging 4° in comparison to users with no adjustments. Savings vary based on equipment type/condition, insulation, climate & temperature adjustment size/frequency.

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



# 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

45°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:

Apple HomeKit, 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 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.



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

MODEL NUMBER	PROGRAMS		STAGES BY SYSTEM			SYSTEM TYPE		APPLICATIONS				POWER SOURCE	SELECTABLE PERFORMANCE FEATURES								
	Program Options	Periods Per Day Options	Single Stage Heat/Cool	Multi-Stage Heat/Cool	Heat Pump Heat/Cool	Universal, Single Stage, Multi-Stage, Heat Pump <sup>1</sup>	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Economizer	Humidity Control (H)-Humidity / (D)-Dehumidify	Dual Fuel Heat, Pump Control, Logic (L), Outdoor Sensor (O)	Remote Sensor Options, Indoor (I), Outdoor (O)	Battery (B), Hardwire / Common (H), Power Sharing (PS)	Auto Changeover	Programmable Fan (PF), Comfort Circulating Fan (CC)	Filter Change Reminder	Energy Mgt. Recovery / Early Start	Total Keypad Lockout (T), Partial Keypad Lockout (P)	Set-Point: Temperature Limits Adjustable Min./Max	Display Size, Backlight with Key Press (K), Continuous Backlight with Common (C)
1F87U-42WF	7, NP, Geofencing	8 Max	1/1	2/2	4/2	Universal Sensi	✓	✓ <sup>2</sup>	-	-	H, D	L	-	H, PS <sup>3</sup>	✓	CC	✓	✓	T	✓	5.0" K, C

<sup>1</sup> Universal thermostats provide the flexibility to control Single Stage, Multi-Stage, or Heat Pump systems

<sup>2</sup> Heat only, Cool only and 3-wire zone systems require common

<sup>3</sup> Common wire required

## Terminal Designations



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

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