sen|si
Connect to Comfort

EDITORS' CHOICE
BEST VALUE
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USA TODAY NETWORK

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ENERGY STAR
AWARD 2020
PARTNER OF THE YEAR

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**

Easy to install & connect
No common wire (c-wire) required for most installations[1] 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**

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[1]
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[1] and SmartThings.

WORKS WITH alexa

works with the Google Assistant

Works with Apple HomeKit

WORKS WITH SmartThings

PRO
5 YEAR
LIMITED
WARRANTY

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.
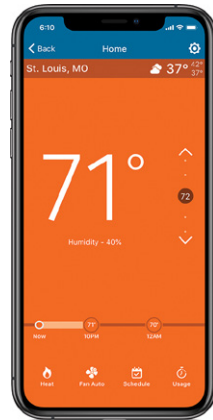
Auto changeover
Automatically switches between heating and cooling within the set range.

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
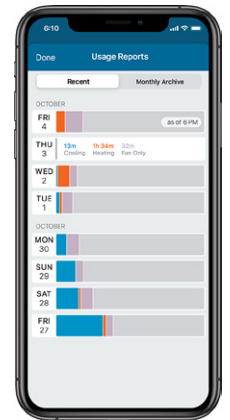Program a schedule for each day of the week.

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[1]	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Economizer	Humidity Control (H)-Humidity / (D)-Dehum idify	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	✓	✓[2]	–	–	H, D	L	–	H, PS[3]	✓	CC	✓	✓	T	✓	5.0" K, C

1 Universal thermostats provide the flexibility to control Single Stage, Multi-Stage, or Heat Pump systems
2 Heat only, Cool only and 3-wire zone systems require common
3 Common wire required

Terminal Designations

(RC) (RH) (C) (W/E) (W2) (Y) (Y2/*) (O/B) (G) (L)

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

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