



Sensi™ Wi-Fi Thermostat

1F87U-42WF

GIVE YOUR CUSTOMERS THE ONLY SMART THERMOSTAT BRAND TO RECEIVE A J.D. POWER AWARD.

GEOFENCING
Geofencing automatically changes temperatures based on the location of the homeowner's smartphone.

SMART ALERTS
Smart alerts notify homeowners of extreme temperature or humidity levels.

SMART HOME COMPATIBLE
Compatible with smart home platforms Apple HomeKit*, Amazon Alexa and Wink.



EASY TO INSTALL
No c-wire required for most installations. Installs like a regular thermostat and works with existing wiring 90% of the time.

EASY TO CONNECT TO WI-FI
Easy step-by-step guide in the app to connect to Wi-Fi.

CONTRACTOR-ON-CALL
The Sensi app stores your contact information so when your customer needs service, you're just a tap away.

SAVINGS
Saves up to 30% on HVAC energy costs and utility rebate eligible.

MULTI THERMOSTAT CONTROL
Easy management for schools and light commercial applications.



DID YOU KNOW?

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



"Highest in Customer Satisfaction with Smart Thermostats."

Sensi by Emerson received the highest numerical score among four brands in the J.D. Power 2016 Smart Thermostat Satisfaction Report, based on 2,509 total responses, measuring the opinion of customers who purchased a smart thermostat in the previous 12 months, surveyed September 2016. Your experience may vary. Visit jdpower.com



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, iOS 10.0 or later is recommended. App Store is a service mark of Apple Inc., registered in the U.S. and other countries. *Sensi thermostats implementation of Apple HomeKit requires a c-wire **Recent research study conducted by Emerson.



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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

DIMENSIONS

5.88" W x 3.75" H x 1.00" D

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 78%
Temp goes up or down 5°F during cycle

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)

*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

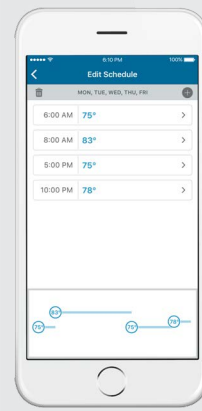
Program a schedule for each day of the week.

LOCAL WEATHER

Get easy weather updates.

HUMIDITY SENSOR

Displays indoor humidity on the thermostat and in the app.



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	Programmable Fan	EMR/ Early Start Program	Temperature Limits	Humidity Display	Dual Fuel Control	Remote Sensor	Filter Change Reminder	Auto DST Adjust	Keypad Lockout	Cont. Backlight w/ Common	Permanent Memory
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.



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