



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



1F87U-42WF

HVAC MONITORING

Sensi smart thermostats deliver information homeowner's need to maintain their HVAC equipment:

SMART ALERTS
Notifies customers when their system may need service, and your contact info is a click away.

SERVICE REMINDERS
Tells customers to contact you for routine maintenance or service.

USAGE REPORTS
Provides valuable system information to your customers with your company name prominently displayed every month.

EASY TO INSTALL & CONNECT
No common wire (c-wire) required for most installations!
Step-by-step guide in the Sensi app.

SENSI PARTNER PROGRAM
Put your name and contact info in front of customers right when they need it. You'll reach customers through digital branding, smart alerts, service reminders, monthly usage reports, in-app branding and the Find A Pro tool.

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

HUMIDITY CONTROL
Help homeowners stay comfortable with humidification/dehumidification control.

CIRCULATING FAN
Air circulation may improve indoor air quality by helping to regulate temperature and prevent buildup of particles.

KEYPAD LOCKOUT
Maintain total control by disabling changes made by others at the thermostat

TEMPERATURE LIMITS
Prevent others from adjusting temperatures too high or too low.

SAVE ABOUT 23% ON HVAC ENERGY²
By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi thermostat customers save about 23% on HVAC energy usage.

SMART HOME COMPATIBLE
Works with Amazon Alexa, Google Assistant, Apple HomeKit (c-wire required), and Samsung SmartThings smart home platforms.



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

² 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)	RATED DIFFERENTIALS (@ 6°F / HR)	FAST Heat (conventional gas/oil/elect): 0.5°F Cool (central air): 0.9°F Heat pump (heat and cool): 0.9°F Heat pump (aux): 0.5°F	MED 0.75°F 1.2°F 1.2°F 0.75°F	SLOW 1.9°F 1.7°F 1.7°F 1.9°F	DIMENSIONS	5.88" W x 3.75" H x 1.00" D	
STANDARD SYSTEMS	Single-stage gas, oil, electric Single-stage heat pump Multi-stage gas, oil, electric Multi-stage heat pump	COMPATIBILITY	Conventional heating and cooling system: Apple HomeKit, heat pump*, heat only and cool only systems:		POWER SOURCE	Battery (power sharing) or hardwired (c-wire) Hardwired only (c-wire)	STORAGE	-20° to 150°F (-29° to 65°C) 0%-90% RH non-condensing
SETPOINT RANGE	45°F to 99°F (7°C to 37°C)	SENSI ALERT	High temperature: Low temperature: High humidity: Loss of heat/cool:	Above 99°F Below 45°F Above 70% Temp goes up or down 5°F during cycle	TRIGGER		OPERATING AMBIENT	32°F to +105°F (0°C to +41°C)
ACCESSORIES	Wallplate: F61-2663 (6.75" x 4.50") Thermostat guard: F29-0198	DISPLAY TEMPERATURE RANGE					OPERATING HUMIDITY	90% non-condensing max
		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

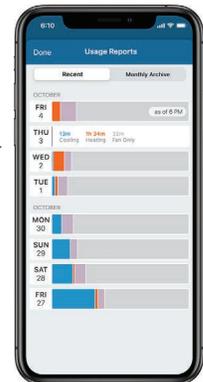
Get easy weather updates.

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
1F87U-42WF	7, NP, Geofencing	8 Max 1/1 2/2 4/2	Universal, Single Stage, Multi-Stage, Heat Pump ¹ 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)	✓ 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



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

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