GE Lighting
A SAVANT COMPANY

GE Smart Thermostat - Works with Savant (SST-W300) Quick Reference Guide

Box Contents

(1) GE Smart Thermostat (SST-W300-xx)
(2) Drywall Anchor (039-0700-00)
(2) #6 x 1 inch pan head screws (039-0701-00)
(1) Thermostat Wall Plate (074-2759-00)
(1) Wire Labels Sheet (080-1301-00)
(1) Backplate (074-2758-00)
(1) Power Extender Kit (PEK) (169-0608-00)
(1) Product and Regulatory Insert (009-2086-xx)
(1) Quick Reference Guide (009-2334-xx)

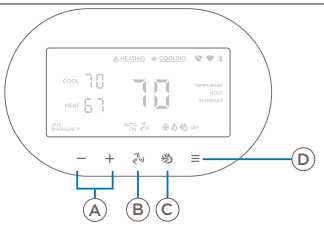
Specifications

Environmental				
Temperature	32° to 104° F (0° to 40° C)			
Humidity	10% to 90% RH (non-condensing)			
Dimensions and Weights				
	Height	Width	Depth	Weight
SST-W300	3.25 in (8.25 cm)	5.25 in (13.3 cm)	1.0 in (2.54 cm)	.14 lbs (.07 kg)
Shipping	7.75 in (19.7 cm)	7.63 in (19.4 cm)	4.25 in (10.8 cm)	.14 lbs (.07 kg)
Power				
Input	24 V AC (C wire required. If there is no C wire, use included Power Extension Kit.)			
PEK Input	20-30 V AC			
Amp Rating	Max. 1A per terminal			
Regulatory				
Safety and Emissions	FCC Part 15 Class B			
Contains FCC ID:	PUU-CTHMCAPEKB1			
Contains IC:	10798A-CTHMCAPEKB1			
RoHS	Compliant			
Standards				
Wireless	802.11 b/g/n (2.4 GHz) **IMPORTANT!** 802.11r fast roaming is not supported.			
Security	WPA1™, WPA2™, WPA1™ +WPA2™			
Minimum Supported Release				
Savant OS	da Vinci 10.4			

Additional Information

To view available documentation, detailed product specs, and more, Visit the Savant Knowledge tab via the Savant Customer Community to search all Savant documentation.

Front Panel Controls



(A) Increase or decrease temperature setpoint.

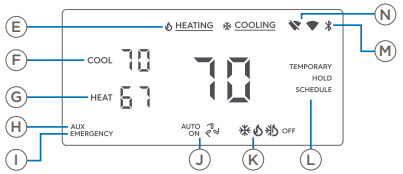
(B) **Fan Mode** - Cycles through ON and AUTO fan modes.

(C) **HVAC Mode** - Cycles through COOL, HEAT, AUTO, and OFF HVAC modes.

(D) **Hold Status** - Cycles through Hold Modes. See (L) for more information on mode descriptions. Set HVAC mode to OFF, then press and hold for 10 seconds to reset to factory defaults.

NOTE: If the screen is in sleep mode, press any key to wake up the device before operation.

Front Panel LED Modes and Indicators



(E) **Heating/Cooling Status -** Current status of heating/cooling system.

(F) **Cooling Setpoint** - Targeted temperature when COOL or AUTO Mode is active.

(G) **Heating Setpoint** - Targeted temperature when HEAT or AUTO Mode is active.

(H) **Auxiliary Heat** - Heat pump's auxiliary heat is active.

(I) **Emergency Heat** - Emergency heat mode is active.

(J) **Fan Mode** - Whether the fan is in AUTO or ON mode.

(K) **System Mode** - Current system status: COOL/HEAT/AUTO/OFF

(L) **Hold Status**

- **SCHEDULE:** Runs the set schedule created in the Savant App
- **HOLD:** Manually overrides all scheduled changes and holds temperature constant
- **TEMPORARY:** Manually overrides all scheduled temperature changes until next scheduled event

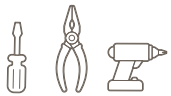
(M) **Setup Mode** - Whether Setup Mode is active or not

(N) **Wi-Fi Status** - Current Wi-Fi connection status

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Getting Started

Savant recommends having the following tools available for installation:



- Pencil
- #2 Phillips screwdriver
- Drill with 1/4 inch drill bit
- Wire stripper
- Measuring Tape

⚠ **CAUTION!** When replacing an older thermostat that contains mercury in a sealed tube, do not discard it into the trash. Refer to thermostat-recycle.org or similar website for information on how to dispose of mercury properly.

⚠ **IMPORTANT!** Before attempting installation, power off the HVAC system. Check for a master switch at the HVAC equipment. If there's no master switch, turn off the power at the circuit breaker box. After turning off the power, attempt to adjust the thermostat temperature to ensure power is off.

Remove Old Thermostat

⚠ **IMPORTANT!** If the old thermostat has 110/120V wires with wire nuts, it is a high voltage system. The GE Smart Thermostat - Works with Savant is not compatible with high voltage systems..

1. Switch OFF power at either the breaker panel or the switch that controls the HVAC system.
2. Open the old thermostat and observe the wires attached. Take a photo of the existing wiring. The photo should reveal wire colors and terminal designations.
3. Look for a wire connected to the C terminal. Existing wiring may have an unused C wire tucked behind the wall. If a C wire exists, ensure the other end of the wire is connected to the C terminal on the HVAC control board. The GE Smart Thermostat - Works with Savant is powered by a C wire. If there is no C wire the included **Power Extender Kit** (PEK) will be used for installation.
4. Using the top chart to the right, record which wires are installed in the old thermostat. In addition, record the wire colors. Not all fields from the chart may be populated.

Terminal		Wire Color
	RH	
	RC	
	C	

Terminal		Wire Color
	W1	
	W2	
	G	
	Y1	
	Y2	
	OB	
	PEK	

5. Remove any jumper wires (e.g., Rc or Rh) and attach a label that matches the terminal designation from the old thermostat. It's important to label the wires according to the terminal designation and NOT the color of the wire.
6. Disconnect the remaining wires and add a wire label to each.
   ℹ **TIP!** Wrap wires around a pencil to prevent the wires from falling back into the wall.
7. Remove old thermostat from wall.

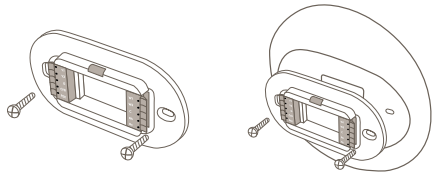
Location and Mounting Overview

For new installations or when relocating the thermostat, follow the guidelines below:

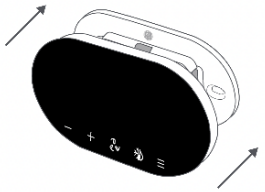
- Locate thermostat on an inside wall away from windows and doors to reduce the exposure to drafts or direct sunlight.
- Do not locate where air circulation is poor such as in a corner or behind a door.
- Install away from any heating or cooling conditions such as near a radiator register, vent, or fireplace.
- To adhere to ADA requirements, install thermostat 48 - 54 inches (1.22 - 1.37 meters) above the floor.
- Height requirements can be adjusted upward to 60 inches (1.5 meters) if ADA requirements are not mandatory.
- Thermostat can only be oriented in landscape layout.

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Install Thermostat



1. Position the back plate in the desired location. If installing with the optional trim plate, position the trim plate between the wall and back plate in the desired location.
2. Use the built-in bubble level to ensure the back plate is correctly positioned.
3. Mark both holes using a pencil.
4. Ensure there are no pipes or wires behind the wall where holes are marked.
5. Drill holes for the drywall mounting anchors using a 1/4" drill bit then insert the anchors.
6. Place back plate against the wall and fasten with both screws. If installing with the optional trim plate, place trim plate against the wall with the back plate in front. Fasten both screws.
7. Proceed by making wire connections. See Example Wiring Diagram.
8. Align the thermostat over the back plate. Orient so that the thermostat control buttons are on the bottom. Gently push the thermostat into place until it clicks.
9. Power on the HVAC system. The thermostat will automatically power on.



Factory Reset

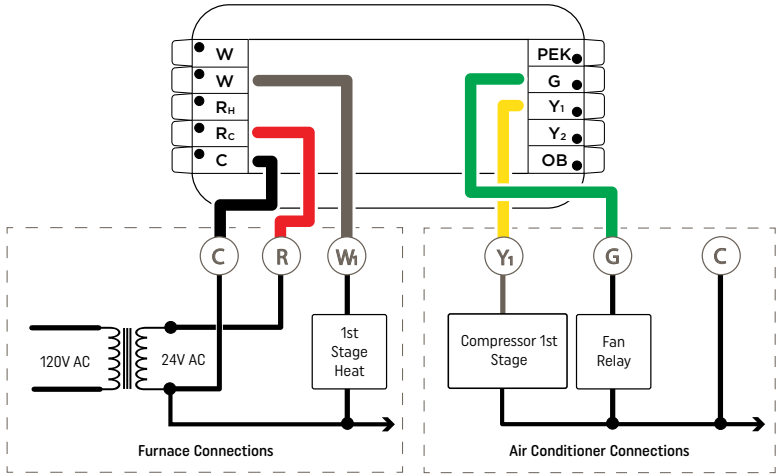
⚠ **IMPORTANT!** Performing a factory reset wipes the configuration and removes the assigned IP address of the thermostat. The thermostat will need to be provisioned to the network again.

1. Set the HVAC mode on the thermostat to OFF.
2. Hold down the menu icon for 10 seconds.
3. The thermostat will now reset.

Example Wiring Diagram

The following diagram shows a common wiring scenario for a 1 stage heat, 1 stage cool gas and electric HVAC system. For more information on HVAC systems and wiring diagrams, see the **GE Smart Thermostat Installation and Deployment Guide** on the Savant Customer Community.

1 Stage Heat, 1 Stage Cool Gas and Electric Wiring Diagram



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Manual Setup

Use Manual Setup to configure the GE Smart Thermostat - Works with Savant if access to Wi-Fi or the Savant Power & Light app is unavailable. Follow the steps below:

1. Switch the thermostat HVAC mode to OFF.
2. Press and hold both – and + buttons together for 10 seconds to enter Manual Setup mode.
3. Use the – and + buttons to navigate to the desired HVAC system configuration. To determine your HVAC system code, refer to the table below:

HVAC System Codes

Code	HVAC System	Code	HVAC System
01	1 Stage Cooling Conventional	17	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Cool - Electric Aux
02	2 Stage Cooling Conventional	18	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Cool - Boiler Aux
03	1 Stage Heating Conventional - Gas	19	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Cool - Gas Aux
04	1 Stage Heating Conventional - Electric	20	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Heat - Electric Aux
05	2 Stage Heating Conventional - Gas	21	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Heat - Boiler Aux
06	2 Stage Heating Conventional - Electric	22	2 Compressors or 2 Speed Compressor Heat Pump (1-AUX) - On Heat - Gas Aux
07	1 Stage Heating/Cooling Conventional - Gas	23	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Cool - Electric Aux
08	1 Stage Heating/Cooling Conventional - Electric	24	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Cool - Boiler Aux
09	2 Stage Heating/Cooling Conventional - Gas	25	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Cool - Gas Aux
10	2 Stage Heating/Cooling Conventional - Electric	26	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Heat - Electric Aux
11	1 Compressor Heat Pump (1-AUX) - On Cool - Electric Aux	27	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Heat - Boiler Aux
12	1 Compressor Heat Pump (1-AUX) - On Cool - Boiler Aux	28	2 Compressors or 2 Speed Compressor Heat Pump (2-AUX) - On Heat - Gas Aux
13	1 Compressor Heat Pump (1-AUX) - On Cool - Gas Aux	29	1 Stage Heating Conventional – Boiler
14	1 Compressor Heat Pump (1-AUX) - On Heat - Electric Aux	30	2 Stage Heating Conventional – Boiler
15	1 Compressor Heat Pump (1-AUX) - On Heat - Boiler Aux	31	1 Stage Heating/Cooling Conventional – Boiler
16	1 Compressor Heat Pump (1-AUX) - On Heat - Gas Aux	32	2 Stage Heating/Cooling Conventional - Boiler

4. To lock in the selection, press and hold the – and + buttons together for 5 seconds or wait 30 seconds for Manual Setup mode to time out.
5. Use the **Mode** button to toggle between 1 or 2 power wires.
   - If system wiring includes only one power wire, like Rc, set the power wire to 1.
   - If system wiring includes two power wires, like Rc and Rh, set the power wires to 2.

⚠ Important Notes

- Setting the power wires incorrectly may cause damage to the HVAC equipment and/or thermostat.
- The GE Smart Thermostat is not rated for outdoor environments.
- Most thermostat functions still work when not connected to Wi-Fi. However scheduling, remote control, and OTA updates require the thermostat to be connected to a wireless network with WAN access and the thermostat to be integrated into a Savant system connected to a network with WAN access. Settings will not be lost. Upon reboot, the last know configuration is applied.
- Humidifiers, dehumidifiers and vents are not supported. For compatible HVAC systems, see the **GE Smart Thermostat - Savant Enabled Compatibility Guide** on the Savant Customer Community.
- Both Fahrenheit & Celsius are supported.

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