

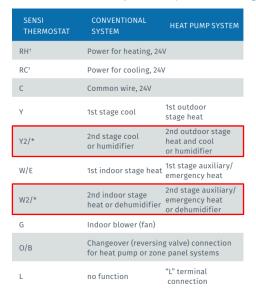
EMERSON

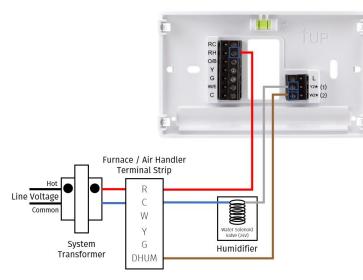
1. Contractor Firmware Update Process

If the Sensi thermostat being installed has not yet received a firmware update over the air, please follow the instructions below:

- 1. Dial 1-888-605-7131
- 2. Press 2 in the first menu, indicating that you are professional and Press 3 in the second menu
- 3. When your call is answered, tell the agent that you are at a customer's home and need the firmware update pushed for the hum/dehum capabilities. Provide the MAC ID located on the back of the faceplate to the agent.

2. Installation - Compatibility and Wiring





Y2/* terminal energizes on call for humidification with call for heat
W2/* terminal de-energizes on call for dehumidification with call for cool

3. Configuration – Setting Humidification/Dehumidification Control Capability On/Off

| CONFIG | URATION MENU ITEMS REFE | RENCE | |
|-----------------|--|---------|---|
| Display Code | Menu item | Default | Options |
| | Wireless Setup Connects Thermostat to Wi-Fi network | - | Connect |
| | Fahrenheit or Celsius | F | F C |
| | Outdoor Equipment Configuration Cooling or heat pumps | AC2 | AC1 - Conventional Cooling 1 (Single Stage) AC2- Conventional Cooling 2 (Two-Stage) HP1 - Heat Pump 1 (Single Stage) HP2- Heat Pump 2 (Two-Stage) AC0- No Cooling |
| | Indoor Equipment Configuration For Gas or Electric Heat | EL2 | EL1- Electric 1 (Single Stage) EL2- Electric 2 (Two-Stage) FAn GA1 Gas 1 (Single Stage) GA2 Gas 2 (Two-Stage) |
| | Reversing Valve Position Selects "O" or "B" Setting | | O B |
| Fn | For Heat Pumps Only Circulating Fan | OFF | 2 Off/10% – 100% (5% increments) |
| H AA | Humidification Add Accessory | OFF | Off/On |
| H SP | Humidification Set Point | OFF | Off/5% – 50% (5% increments) |
| dH AA | Dehumidification Add Accessory | Od | Od/Oc Od – Optimal dehumidification (Overcool to dehumidify) Oc – Optimal comfort (Wired dehumidification) |
| dH SP | Dehumidification Set Point | OFF | Off/40% – 95% (5% increments) |
| | Wireless Radio Turns Wi-Fi Radio On/Off | ON | Off/On |



4. Using the Feature – Turning Humidification Control On/Off and Setting the Humidity Setpoint

Dehumidification Control at the

thermostat

Humidification/Dehumidification Control in the Sensi App



Frequently Asked Questions

Humidification Control at the

thermostat

| | FAQ | Answer | | | | |
|---------------------------------|---|--|--|--|--|--|
| Firmware Update | When can I get the firmware OTA update for the humidity control? | Firmware updates for humidity control are automatically installed once a Sensi smart thermostat is connected to the internet. | | | | |
| Firmwar | Which versions of Sensi thermostats are compatible with Humidity control? | Sensi Touch (1F95U) and Sensi Classic (1F87U) thermostats are all backwards compatible. 1F86U and UP500W models are currently not compatible. | | | | |
| 8 L | What terminals should I use to enable the humidity control? | Use Y2/* for humidification and W2/* for dehumidification | | | | |
| Installation & Configuration | What types of humidifiers and dehumidifiers are supported? | Humidifiers – Any 24VAC humidifier. Currently, Sensi does not support independent (from a call for heat) humidification Dehumidifiers – HVAC systems with a dehumidify mode (slowing of the system's fan speed) or 24VAC dehumidifiers. Currently, Sensi does not support independent (from a call for cool) dehumidification. | | | | |
| Ire | What is an appropriate humidity setpoint? | Depending on the outdoor temperature, the ideal indoor humidity level is between 30-50% RH. In cold weather, if condensation appears on your windows, lower the humidity setpoint. | | | | |
| Using the Feature | What is Overcooling to Dehumidify? | On air conditioning systems without a dehumidifier, the dehumidification feature allows Sensi to overcool to a maximum of 3° below the AC setpoint to help control humidity. Systems with dehum terminals on the air handler or wired dehumidifiers will use those capabilities rather than overcooling. | | | | |
| | Why is my system unable to reach my humidity setpoint? | During extremely cold and dry or hot and humid climates, your humidifier or dehumidifier may not be able to increase or decrease humidity enough to reach your setpoint depending on the size of your equipment. | | | | |





EMERSO

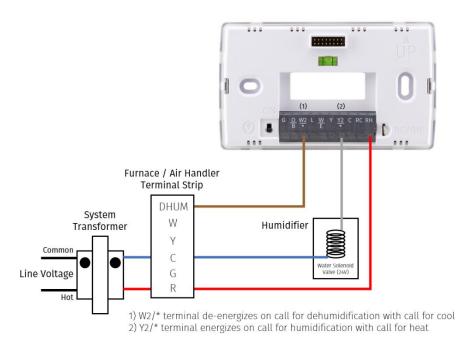
1. Contractor Firmware Update Process

If the Sensi thermostat being installed has not yet received a firmware update over the air, please follow the instructions below:

- 1. Dial 1-888-605-7131
- 2. Press 2 in the first menu, indicating that you are professional and Press 3 in the second menu
- 3. When your call is answered, tell the agent that you are at a customer's home and need the firmware update pushed for the hum/dehum capabilities. Provide the MAC ID located on the back of the faceplate to the agent.

2. Installation - Compatibility and Wiring

| SENSI THERMOSTAT | CONVENTIONAL SYSTEM | HEAT PUMP SYSTEM | | | |
|---------------------|--|---|--|--|--|
| RH⁺ | Power for heating, 24 | V | | | |
| RC [†] | Power for cooling, 24V | | | | |
| C Common wire, 24V | | | | | |
| Y | 1st stage cool | 1st outdoor stage heat | | | |
| Y2/* | 2nd stage cool or humidifier | 2nd outdoor stage heat and cool or humidifier | | | |
| W/E | 1st indoor stage heat | 1st stage auxiliary/ emergency heat | | | |
| W2/* | 2nd indoor stage heat or dehumidifier | 2nd stage auxiliary/ emergency heat or dehumidifier | | | |
| G | Indoor blower (fan) | | | | |
| O/B | Changeover (reversing valve) connection for heat pump or zone panel systems | | | | |
| L | no function | "L" terminal connection | | | |



3. Configuration – Setting Humidification/Dehumidification Control Capability On/Off

| CONFIGURATION MENU I | TEMS REFER | | | Press Adva | nced Set Up | | Pre | ss Set Up H | VAC Equipm | nent |
|------------------------|--------------------------------|--|--|---------------------|--------------------|--------------------------------|-------------------|-------------|---------------|---------------|
| Menu item | Default | Options | | | | | | | | |
| Sleep Mode | Off | Turn sleep display mode on/off | \leftarrow | М | enu | | \leftarrow | Advance | d Set Up | |
| Backglow | Off | Off / On | | | | | | | | |
| Home Screen Content | On | Indoor Humidity | Z″ Sleep Mode | Back Glow | Mome Screen | Schedule | O Set Up HVAC | Fan Mode | + Humidify | – Dehumidi |
| | On | Time of Day | Steep Mode | BACK GLOW | Content | Schedule | Equipment | Options | Humidity | Denumiai |
| | °F | °F/°C | | | | | | | | |
| Schedule | - | 5 / 2 Day Schedule | ((r | 122 | 0 | | | | | |
| Wi-Fi | - | Connect to Wi-Fi | Wi-Fi | About Thermostat | Advanced Set Up | | | | | |
| About Thermostat | - | Model Number/Reset | | mermostat | Sec op | | | | | |
| Advanced Setup | | HVAC Equipment Fan Mode Options | | | | | | | | |
| Set Up HVAC Equipment | AC2 / EL2 | | | | | | | | | |
| | AC2 | Outdoor Setup AC1/AC2/HP1/HP2/None | | | | | | | | |
| | EL2 | Indoor Setup GA1/GA2/EL1/EL2/Fan | | Additional | Accessories | | | | | |
| | O Reversing Valve Position O/E | | Before adding additional accessories visit | | | | Outdoor equipme | | AC1 AC2 | HP1 HP2 |
| | None | Additional Accessories None/Add | sensi.emerson.com/compatibility | | | | | | | |
| | No | Humidifier (wired to | Humidifier (Wired to thermostat) Yes No | | | Indoor equipmen | t | GA1 GA2 | EL1 EL2 | |
| | | thermostat) Yes/No | Humidiner (wire | d to thermosta | t) Yes | No | Reversing valve p | osition | 0 B | 6 Noi |
| | No | Dehumidifier (wired to | Dehumidifier (W | ired to thermos | tat) Yes | No | | | | |
| | | thermostat) Yes/No | | | | | Additional access | ories | | Add |
| Fan Mode Options | Off | Circulating Fan Off/On | | | | | | | | |
| | | 10% - 100% (5% increments) | Can | cel | S | ave | Canc | əl | 1 | Save |
| | Off | Humidification Off/On | Make collection depending on | | | Press Add Additional accessori | | | • | |
| Humidify | 1.00/ | | Make selection depending on installed equipment | | | | | | | |
| Humidify Dehumidify | 40% Off | 5%- 50% (5% increments) Dehumidification Off/On | ма | | | on | Press | | onal access | sories |

4. Using the Feature - Turning Humidification Control On/Off and Setting the Humidity Setpoint

Humidification Control at the thermostat (Advanced Set Up -> Humidify)

Humidification

ON C

Humidification using wired equipment:

Use your wired humidifier to add moisture to the air.

Dehumidification Control at the thermostat (Advanced Set Up -> Dehumidify)

Dehumidification using wired equipment:

Dehumidification ON C Use your wired dehumidifier or slow your system's fan speed to remove moisture from the air. Set To 50% Set To 50% Dehumidification using overcooling: Dehumidification ON 🥌

Overcool up to 3° below your set point to remove moisture from the air.

(Set To **50%**)

Humidification / Dehumidification Control in the Sensi App



Frequently Asked Questions

| | FAQ | Answer | | | | | |
|---------------------------------|---|--|--|--|--|--|--|
| Firmware Update | When can I get the firmware OTA update for the humidity control? | Firmware updates for humidity control are automatically installed once a Sensi smart thermostat is connected to the internet. | | | | | |
| Firmwaı | Which versions of Sensi thermostats are compatible with Humidity control? | Sensi Touch (1F95U) and Sensi Classic (1F87U) thermostats are all backwards compatible. 1F86U and UP500W models are currently not compatible. | | | | | |
| ⊗ ⊑ | What terminals should I use to enable the humidity control? | Use Y2/* for humidification and W2/* for dehumidification | | | | | |
| Installation & Configuration | What types of humidifiers and dehumidifiers are supported? | Humidifiers – Any 24VAC humidifier. Currently, Sensi does not support independent (from a call for heat) humidification Dehumidifiers – HVAC systems with a dehumidify mode (slowing of the system's fan speed) or 24VAC dehumidifiers. Currently, Sensi does not support independent (from a call for cool) dehumidification. | | | | | |
| Using the Feature | What is an appropriate humidity setpoint? | Depending on the outdoor temperature, the ideal indoor humidity level is between 30-50% RH. In cold weather, if condensation appears on your windows, lower the humidity setpoint. | | | | | |
| | What is Overcooling to Dehumidify? | On air conditioning systems without a dehumidifier, the dehumidification feature allows Sensi to overcool to a maximum of 3° below the AC setpoint to help control humidity. Systems with dehum terminals on the air handler or wired dehumidifiers will use those capabilities rather than overcooling. | | | | | |
| | Why is my system unable to reach my humidity setpoint? | During extremely cold and dry or hot and humid climates, your humidifier or dehumidifier may not be able to increase or decrease humidity enough to reach your setpoint depending on the size of your equipment. | | | | | |