sen|si ™

Sensi™ Wi-Fi Programmable Thermostat
MANUAL OPERATION
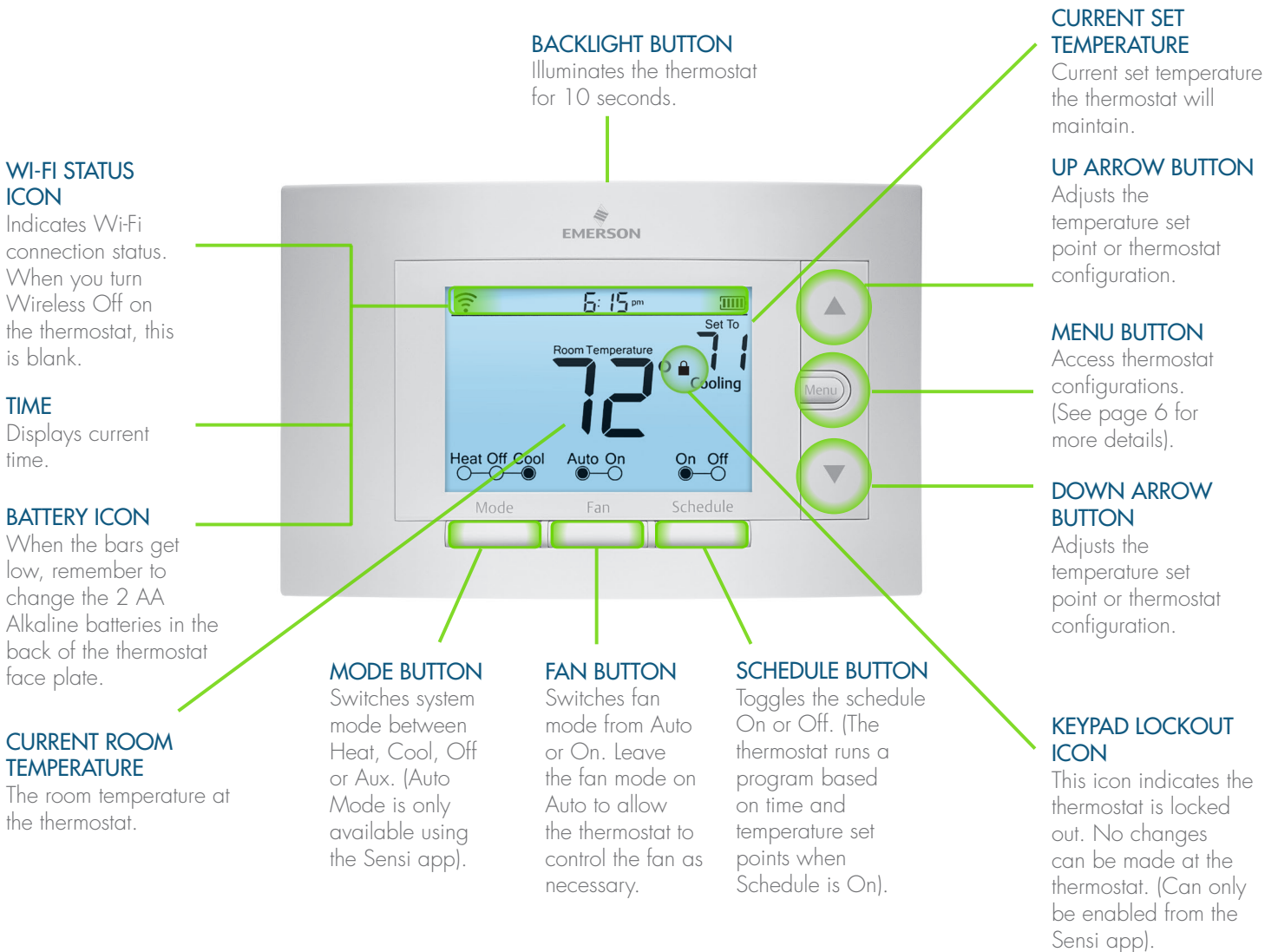
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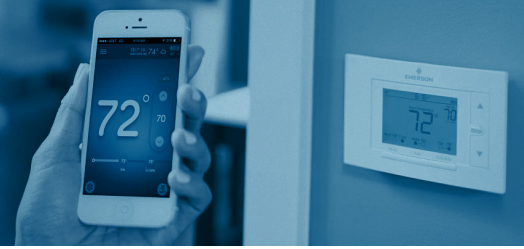
MANUAL OPERATION GUIDE

Buttons and Icons

The Sensi Wi-Fi Programmable Thermostat can be operated through Wi-Fi using the Sensi app or it can be operated at the actual wall unit. Advanced features such as thermostat settings, scheduling and email alerts are only available through the Sensi app.

BACKLIGHT BUTTON
Illuminates the thermostat for 10 seconds.

CURRENT SET TEMPERATURE
Current set temperature the thermostat will maintain.

WI-FI STATUS ICON
Indicates Wi-Fi connection status. When you turn Wireless Off on the thermostat, this is blank.

UP ARROW BUTTON
Adjusts the temperature set point or thermostat configuration.

MENU BUTTON
Access thermostat configurations. (See page 6 for more details).

TIME
Displays current time.

DOWN ARROW BUTTON
Adjusts the temperature set point or thermostat configuration.

BATTERY ICON
When the bars get low, remember to change the 2 AA Alkaline batteries in the back of the thermostat face plate.

CURRENT ROOM TEMPERATURE
The room temperature at the thermostat.

MODE BUTTON
Switches system mode between Heat, Cool, Off or Aux. (Auto Mode is only available using the Sensi app).

FAN BUTTON
Switches fan mode from Auto or On. Leave the fan mode on Auto to allow the thermostat to control the fan as necessary.

SCHEDULE BUTTON
Toggles the schedule On or Off. (The thermostat runs a program based on time and temperature set points when Schedule is On).

KEYPAD LOCKOUT ICON
This icon indicates the thermostat is locked out. No changes can be made at the thermostat. (Can only be enabled from the Sensi app).

Basic Functionality

SWITCHING SYSTEM MODE

Press the "Mode" button to switch between all available system mode settings.
When the Mode is "Off" the thermostat will not bring on your heating or cooling systems.

FAN MODE

If you want to circulate the indoor blower, you can switch Fan to "On." Turn the Fan back to "Auto" when you want the thermostat to control your indoor blower as necessary. Leaving the Fan in "On" will run your blower continuously.

HOLDING ONE TEMPERATURE

If you want to hold one temperature, turn Schedule "Off." Then, adjust the set point using the up and down arrow buttons. The thermostat will hold this temperature, in the set Mode, until you turn Schedule back "On" or until you adjust the set point again using the up and down arrow buttons.

TEMPORARY HOLD

When your schedule is set to "On," your Sensi thermostat controls your home based on the time and temperature settings in the current schedule. To temporarily change your temperature use the up and down arrows in the app or on the thermostat. Your Sensi thermostat will display "Temporarily Set To" on the thermostat and will hold your new temperature until the next scheduled set point with a minimum hold time of two hours.

TURN WI-FI OFF

If connecting to Wi-Fi is not an option, you can turn off Wi-Fi on the thermostat and manually set a time and a schedule from the wall unit.

To turn off Wi-Fi:

1 Press "Menu".

2 Press "Next" five times to go to the "Wireless (Setup)" screen. "On" should be flashing at the top.

3 Use the up and down arrow buttons to change it to "Off".

4 Press "Exit".
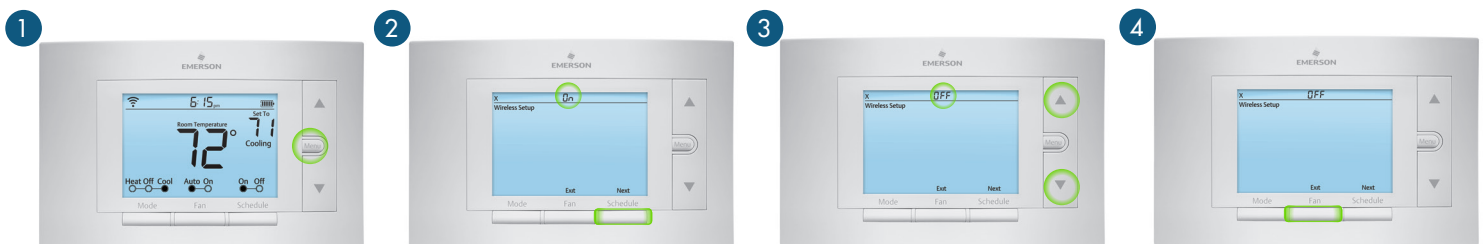
Manual Settings

SETTING THE TIME MANUALLY

When connecting the thermostat to Wi-Fi, the time will sync automatically. If not connecting to Wi-Fi, follow these steps to set the time at the thermostat.

1 Turn Wi-Fi Off. (Refer to section "Turn Wi-Fi Off" on page 4).

2 Press and hold the "Schedule" button.

3 The screen will go blank and the time will start flashing at the top. Use the up and down arrow buttons to rotate through the times until you get to the appropriate time of day.

4 Press "Exit".

SETTING A SCHEDULE

When connecting the thermostat to Wi-Fi, the schedule is programmed based on time and temperature set points from the Sensi app. If you are not connecting to Wi-Fi, follow these steps to set a basic 7 day schedule with 4 mandatory set points.

(More robust scheduling options are only available through the Sensi app.)

1 Turn Wi-Fi Off. (Refer to section "Turn Wi-Fi Off" on page 4).

2 Use the "Mode" button to set which type of schedule it will be: Heat or Cool.

3 Press and hold the "Schedule" button, until you see the time flash at the top of the screen.

  a Adjust the time on the thermostat if needed, using the up and down arrow buttons.

4 Press "Next".

5 You will see a large number in the middle of the screen. This refers to your set point.

  a The time will be flashing at the top of the screen. Adjust the time of the first set point using the up and down arrow buttons.

  b Press "Next". The set point will be flashing. Adjust the set point using the up and down arrow buttons.

  c Press "Next".

  d Repeat steps a-c for the second, third and fourth set points.

6 Press "Exit".

7 Make sure "Schedule" is set to "On" on the thermostat.

EXAMPLE SCHEDULE

If you need to keep track of your time and temperature set points, use this table.

Period		Daily Start Time	Daily Temp
HEAT	1ST	6:00AM	70F
	2ND	8:00AM	62F
	3RD	5:00PM	70F
	4TH	10:00PM	62F
COOL	1ST	6:00AM	78F
	2ND	8:00AM	85F
	3RD	5:00PM	78F
	4TH	10:00PM	82F

SAMPLE SCHEDULE

Period		Daily Start Time	Daily Temp
HEAT	1ST		
	2ND		
	3RD		
	4TH		
COOL	1ST		
	2ND		
	3RD		
	4TH		

COMPLETE YOUR SCHEDULE

Menu Configurations

Pressing "Menu" at the thermostat allows you to change a series of settings to customize the thermostat for your specific system. Refer to the chart below for a complete listing of thermostat configurations and what they stand for. If you are installing the thermostat on the wall for the first time, we highly recommend that you download the Sensi app and follow the installation instructions.

Configuration Menu Items Reference

No.	Menu Item	Default	Options
1	**Wireless Setup** Connects Thermostat to Wi-Fi network	—	Connect
2	**Fahrenheit or Celsius**	**F**	F C
3	**Outdoor Equipment Configuration** Configuration for the outdoor equipment – either heat pump or conventional A/C systems.	**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
4	**Indoor Equipment Configuration** Configuration for the indoor equipment – either electric or gas (which also refers to oil, propane and boiler) heat systems.	**EL2**	GA1 - Gas 1 (Single Stage) GA2 - Gas 2 (Two Stage) EL1 - Electric 1 (Single Stage) EL2 - Electric 2 (Two Stage) FAN - Fan (No Heat)
5	**Reversing Value Position** Configuration for the default reversing valve state. This is for the wire in the "O/B" terminal. This is relevant for heat pumps, zone valves, and zone panel systems.	**O**	O - (o) – Energize in Cool B - (b) – Energize in Heat Z - (2) – Zone valve setting
6	**Wireless Radio** Turns Wi-Fi Radio On/Off	**ON**	On Off

Wiring Terminals

See below for definitions of the wiring terminals on the sub-base of the thermostat.

TERMINAL OUTPUTS AND WIRING DIAGRAMS

Terminal Label	Definition
RH*	Power for heating, 24V
RC*	Power for cooling, 24V
C**	Common wire, 24V
G	Indoor blower (fan)
Y	First outdoor stage cooling on conventional systems or first heat and cool on heat pump systems.
Y2	Second outdoor stage cooling on conventional systems or second heat and cool on two stage heat pump systems.
W/E	First indoor stage heat on conventional systems or first stage auxiliary/emergency heat on heat pump systems.
W2	Second indoor stage heat on conventional systems or second stage auxiliary/emergency heat on heat pump systems.
O/B	Changeover (reversing valve) connection for heat pump or zone panel systems
L	Heat Pump system, "L" wire connection.

* If the old thermostat has separate RC and RH wires coming out of the wall, clip the RC/RH jumper on the back of the thermostat above the battery compartment.

**The common wire could be labeled "C" on your old thermostat, or it could be labeled "B" or "X." Please refer to the owner's manual of your old thermostat for clarification.

DOES WIRE COLOR CORRESPOND TO THE THERMOSTAT TERMINALS?

Wire color does not always correspond to the thermostat letters. A white wire may be attached to the "W" terminal on the old thermostat, or it may be attached to a different terminal with a different letter. Be sure to take a photo of the old thermostat that shows the wire colors and terminal letters before labeling and removing any wires.

Back of the Face Plate

Below is a picture of the back of the Sensi thermostat face plate. The back plate shows the jumper wires, battery compartment, and some useful information about your thermostat.

SENSI SECURITY CODE Necessary for connecting to Wi-Fi. Also found on a card in the packaging.

MODEL NUMBER
Illustrates whether you purchased the professional or the DIY model.

MAC ID
Unique number that identifies the thermostat.

DATE CODE
When your thermostat was manufactured.

RC/RH INTERNAL JUMPER WIRE
Only clip this if you have separate RC and RH transformers coming out of the wall.
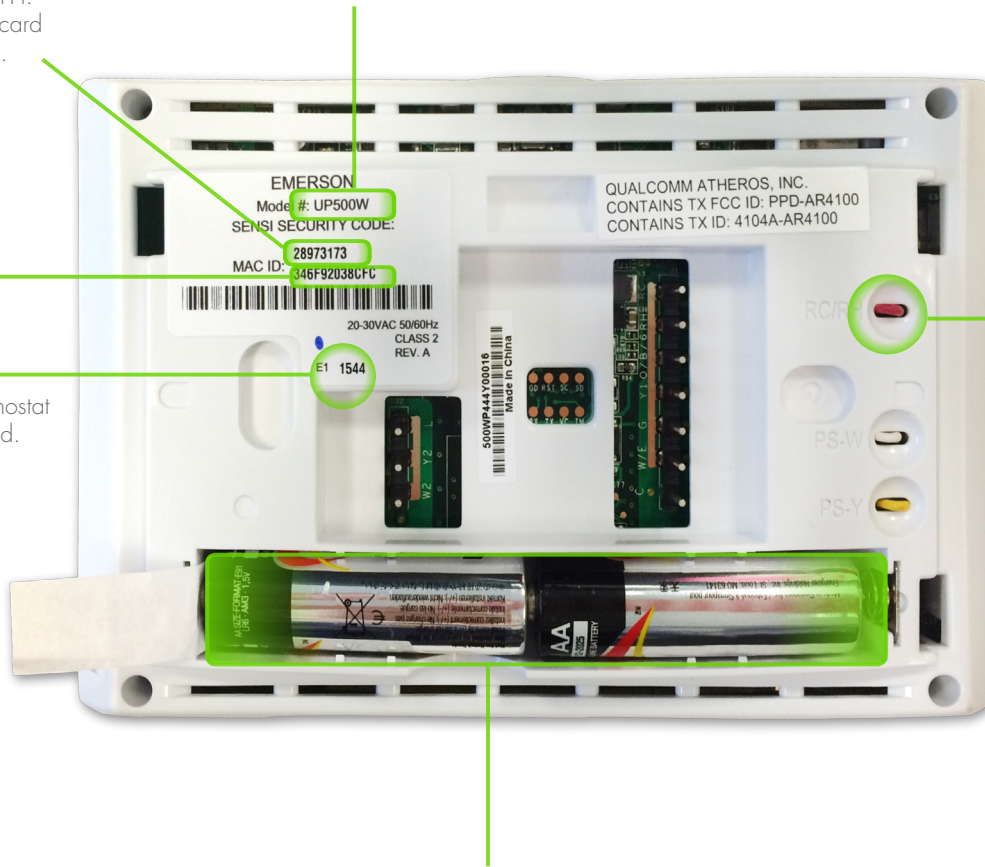
BATTERY COMPARTMENT
Two AA Alkaline batteries are used for back-up purposes. When you see the battery indicator bar on the thermostat display reach 3 bars, replace these batteries to maintain Wi-Fi connectivity.