



Installation Guide
ZIGBEE HA Thermostat
3156105



Locating the Thermostat

If this is to replace an existing thermostat, just use the existing thermostat location.

If this is a new install follow these suggestions:

- Locate the thermostat about 5 ft. off the floor away from direct sunlight, lamps, radios, televisions, fireplaces, hot water pipes, or other heating or cooling sources.
- Do not locate the thermostat near doors to the outside or windows.
- Do not locate the thermostat in a damp area.
- Do not locate the thermostat in an area that lacks air circulation.

Remove Existing Unit

- Switch OFF the electricity to the HVAC unit.
- Remove the cover to the existing thermostat
- Make a note of the terminal location for each wire connected to the thermostat wiring terminals. Wire colors are not standard so it is important to note the terminal label each wire is connected to on the existing thermostat.
- While removing each wire from the existing thermostat wiring terminal, make sure to secure the wire so that it does not fall back into the wall.
- Once all wires are removed from the existing thermostat wiring terminal, remove the existing thermostat from the wall.
- Make sure to leave at least 3" of wire for each connection onto the Centralite thermostat wiring terminal.
- Remove 1/8" insulation from the end of each wire.

Install CentraLite Thermostat

- Place each wire in the appropriate wire terminal. The wiring terminal is labeled as follows:

C	Y1	G/G3	W2/G2	W1/B/O	Y2/G1	RC	RH	I1	IC
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C	Common
Y1	Cool
G/G3	Fan/High Speed Fan
W2/G2	Second Stage Heat/Medium Speed Fan
W1/B/O	Heat/Changeover Valve
Y2/G1	Second Stage Cool/Low Speed Fan
RC	Power From Cooling
RH	Power From Heating
I1	Auxiliary Input Signal
IC	Auxiliary Input Common

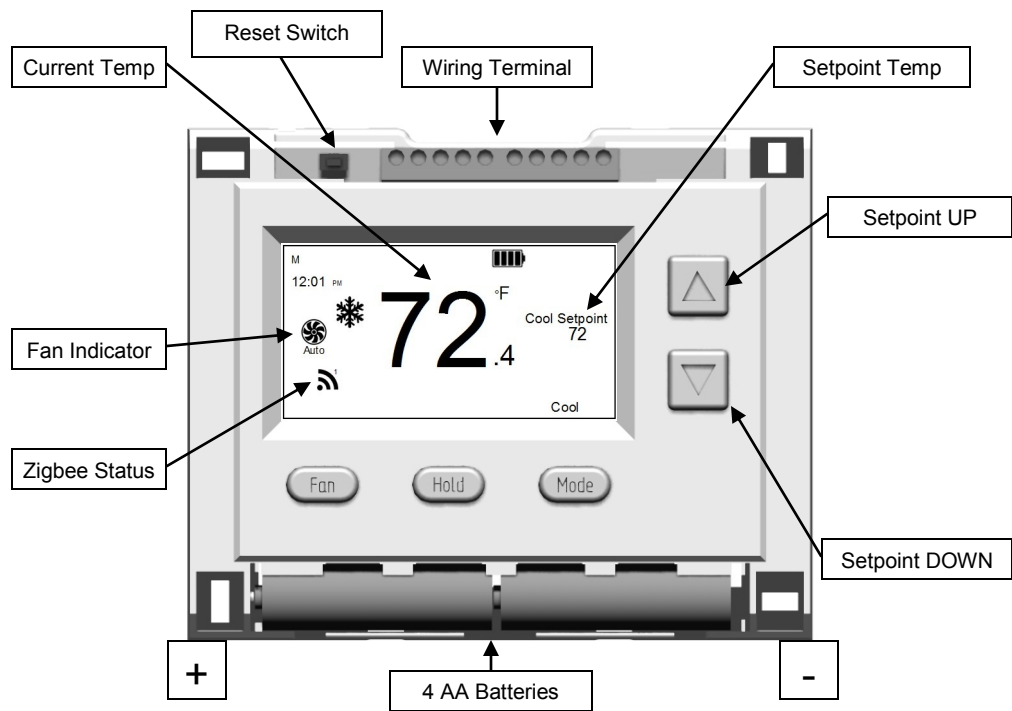
Install Centralite Thermostat

- By default the Centralite thermostat comes with a wiring jumper connecting the RH and RC power terminals. On most units only one power source is used and can be connected to both RH and RC. But if you have a millivolt system or other type of HVAC system it may require separate power sources for Heating and Cooling. In this case you will remove the jumper and separately power RC and RH.
- The Centralite thermostat can be powered by 4 AA batteries or by the power from the HVAC unit if a Common wire is available. Even if you use the common wire for power you should install 4 AA batteries as a backup for the thermostat time clock.
- Connect the wires to the terminal at the top of the thermostat. Note that the wires must route around the back of the thermostat into the wall.
- Hold the thermostat up to the wall in the desired position. Mark where the 4 holes are to be drill. Drill 4 3/16 holes for the wall anchors.
- Use the included wall anchors and screws to mount the thermostat securely onto the wall.
- Install 4 AA batteries into the battery compartment at the bottom of the thermostat.
- Snap the outer cover onto the thermostat.

Thermostat Configuration

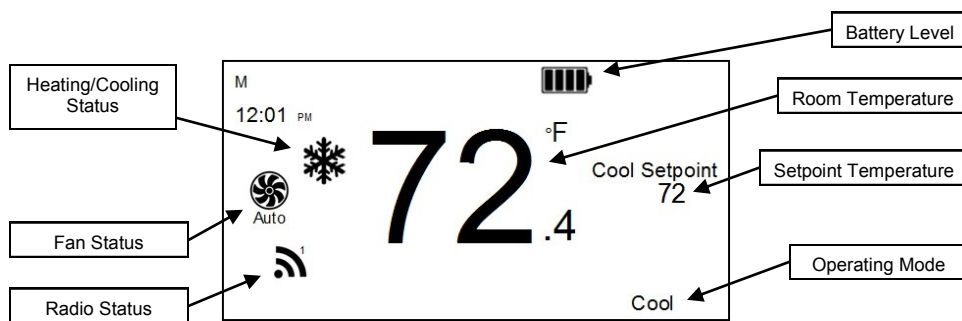
- From the factory the thermostat comes configured to work with single stage Cool/Heat, Single Speed Fan systems.
- If your HVAC system is different refer to the programming section to configure the thermostat for your system.
- If you have separate power for RH and RC then you will need to remove the factory installed jumper between RH and RC.

Thermostat Overview



Testing Thermostat Operation

- After completing any necessary configuration make sure the thermostat is in Cool mode by pressing the MODE button until Cool is displayed at the bottom of the screen.
- Make sure the system is not calling for Cooling by setting the setpoint several degrees above the room temperature. Then check the Fan operation by pressing the Fan button. When the Fan indicator is illuminated without the Auto indicator then air should blow from the unit.
- Now make sure the Fan mode is in Auto and run the setpoint temperature at least several degrees below the room temperature. Give the thermostat at least 3 minutes to respond.
- Now change the system mode to HEAT. Allow the system at least 3 minutes to respond. The Heat(flame) mode symbol should illuminate and system should be blowing hot air.



Join To Zigbee HA Network

- The CentraLite thermostat is intended to operate as part of a Zigbee HA network.
- The thermostat needs to be joined to the Zigbee HA network after installation.
- The first step in the join process is to make sure the Zigbee HA controller is in it's join network mode.
- The CentraLite thermostat will attempt to join a Zigbee HA network upon power up or after pressing the Reset button(as long as it has not already been joined to another Zigbee HA network).
- Upon successfully joining a Zigbee HA network the Zigbee Radio status indicator should illuminate.



- If the indicator does not illuminate then make sure the Zigbee HA system controller is open for joining.
- It may be necessary to have the thermostat leave it's current Zigbee network. Refer to the programming section.

Thermostat Functions

- MODE button cycles between system modes: HEAT/COOL/AUTO/OFF
- FAN button toggles between Fan On Mode and Fan Auto Mode. If available it will cycle through multiple fan speeds.
- HOLD button will enable Hold function which locks out all scheduled system changes. This includes internal schedules and external schedules from a controller.
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Thermostat Programming

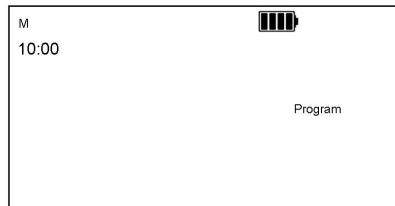
To enter programming mode: **PRESS FAN and MODE buttons at the same time. Then press the UP ARROW button..**

The clock display will change to indicate which programming mode you're currently in.

The display will start at 10:00. If there is ever any inactivity for more than 30 seconds the thermostat will automatically return to normal operation.

Set digit up or down using up and down arrow buttons. Use HOLD button to move left one digit. Use MODE button to move right one digit. Use MODE button to select. Selected values are increased with the UP arrow button and decreased using the DOWN arrow button. MODE button will save current value and return to normal operation.

When finished programming tap the HOLD button until the thermostat is back in normal operation.



Thermostat Programming

11:10(Type)

- 01: 1 Heat, 1 Cool(DEFAULT)
- 02: 1 Heat, 2 Cool
- 03: 2 Heat, 1 Cool
- 04: 2 Heat, 2 Cool
- 05: Heat Pump, Changeover Energized on Heat
- 06: Heat Pump, Changeover Energized on Cool
- 07: Heat Pump, Separate B and O
- 08: Heat Pump, 1 Heat, 2 Cool, Changeover Energized on Cool
- 09: Heat Pump, 2Heat, 1 Cool, Changeover Energized on Cool
- 10: Heat Pump, 1 Heat, 2 Cool, Changeover Energized on Cool
- 11: Heat Pump, 1 Heat, 2 Cool, Changeover Energized on Heat
- 12: Heat Pump, 2Heat, 1 Cool, Changeover Energized on Heat
- 13: Heat Pump, 2Heat, 2 Cool, Changeover Energized on Heat

12:11(Fan Speed)

- 00: 3 Speed
- 01: 2 Speed
- 02: 3 Speed with AUTO Fan Mode
- 03: 2 Speed with AUTO Fan Mode
- 04: Single Speed with AUTO Fan Mode(DEFAULT)

Thermostat Programming

12:21(System Mode)

- 00: Cooling Only(COOL and OFF modes only)
- 01: Cooling with Reheat
- 02: Heating Only(HEAT and OFF modes only)
- 03: Heating with Reheat
- 04: Full Mode(AUTO, COOL, HEAT, OFF)
- 05: Full Mode with Reheat(AUTO, COOL, HEAT, OFF)
- 06: Manual Mode(COOL, HEAT, OFF) (DEFAULT)
- 07: Auto Mode(AUTO, OFF)

13:10(Calibration)

-09 to 09: Temperature Calibration(DEFAULT = 00)

14:11(Occupancy Differential)

00-99: Setback Differential 0.0 Degrees F to 9.9 Degrees F(DEFAULT = 03)

14:21(Occupancy Exit Delay)

00-99: Exit Delay in Minutes(DEFAULT = 15)

14:31(Motion Only)

- 00: Motion Only Enabled(DEFAULT)
- 01: Motion Only Disabled

15:11(Auto Mode Delay)

00-99: Minimum Delay in minutes between mode changes

Thermostat Programming

15:21(Cool Mode Delay)	
00-99:	Minimum Delay in minutes for change into Cool Mode
15:31(Heat Mode Delay)	
00-99:	Minimum Delay in minutes for change into Heat Mode
16:11(Temperature Scale)	
00:	Celsius
01:	Fahrenheit
16:21(Minimum Cool Time)	
00-99:	Minimum Time in Minutes Unit will run during a Cool Cycle
16:31(Minimum Heat Time)	
00-99:	Minimum Time in Minutes Unit will run during a Heat Cycle
16:41(Cool Maximum Runtime)	
00-99:	Maximum Continuous time the unit will run during a Cool Cycle
16:51(Heat Maximum Runtime)	
00-99:	Maximum Continuous time the unit will run during a Heat Cycle
17:11(Display Contrast)	
00-15:	Display Contrast Setting

Thermostat Programming

17:21(Display Type)

00:	Current Temperature Without Decimal Point
01:	Current Temperature With Decimal Point
02:	Setpoint Temperature Without Decimal Point
03:	Setpoint Temperature With Decimal Point

18:11(Cool Setpoint Upper Limit)

00-99:	Upper limit of Cool Setpoint
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18:21(Cool Setpoint Lower Limit)

00-99:	Lower limit of Cool Setpoint
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18:31(Heat Setpoint Upper Limit)

00-99:	Upper limit of Heat Setpoint
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18:41(Heat Setpoint Lower Limit)

00-99:	Lower limit of Heat Setpoint
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18:51(Low Speed Delta)

00-99:	Temperature Differential before Low Speed Fan Engages(0.0-9.9°F)
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18:61(Medium Speed Delta)

00-99:	Temperature Differential before Medium Speed Fan Engages(0.0-9.9°F)
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Thermostat Programming

21:10(Active Scan and Join Available Network)

22:10(Join Network)

23:10(Leave Network)

24:10(Status)

31:10(Set Clock Day)

32:10(Set Clock Hours)

33:10(Set Clock Minutes)

41:00(Reset)

42:00(Factory Reset)

51:00(Lock Keys)

52:00>Password)

Notes



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This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Centralite Systems, Inc. may void the user's authority to operate the equipment.



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FCC ID: T3L-TS004

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