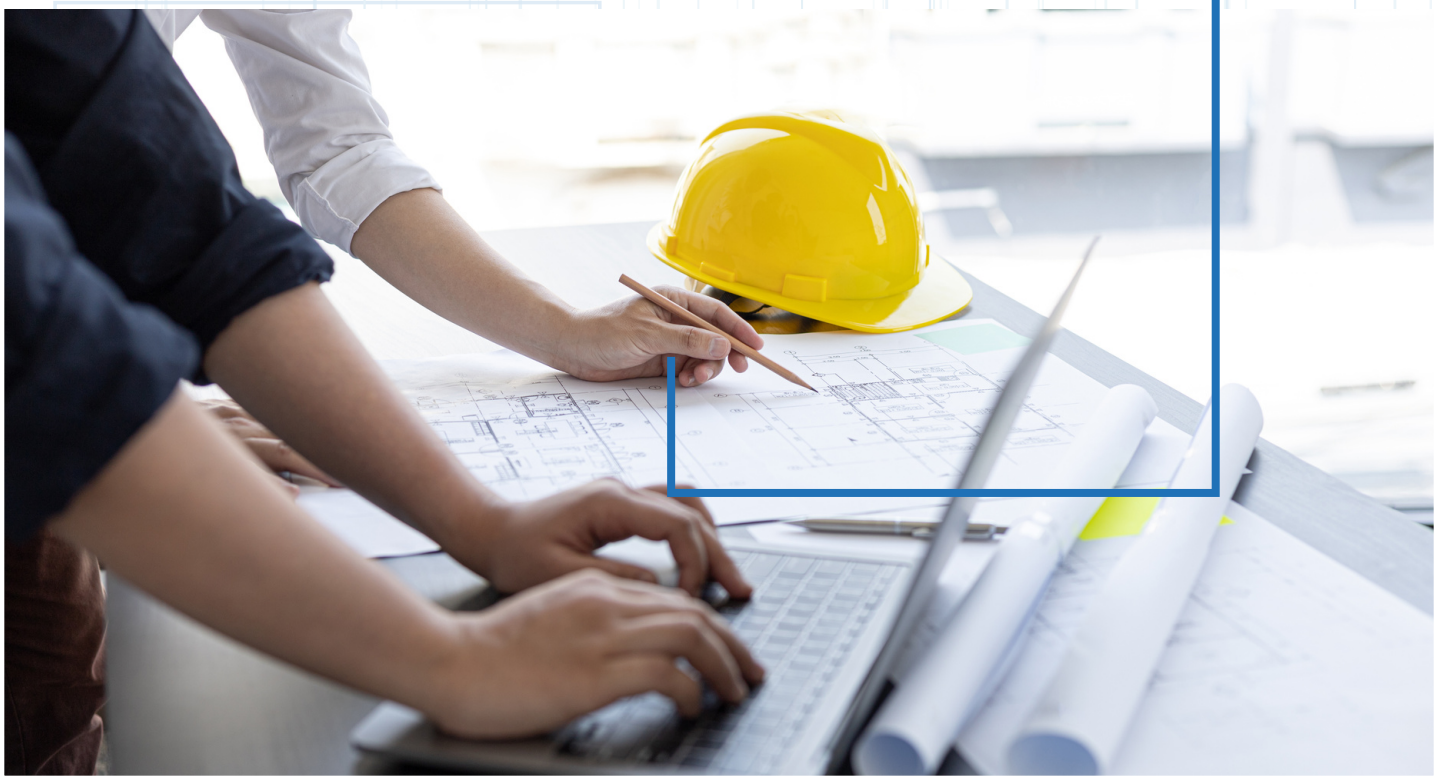
ARCHITECTS & ENGINEER
SUBMITTAL SHEET

Genuine Comfort Wired Occupancy Thermostat



GENUINE COMFORT

DELIVERING COMFORT CONSISTENTLY

Wired Occupancy Thermostat

Job Name:		Engineer:	
Pruchaser:		Architect:	
Unit No.:		Contractor:	
Schedule:		Submitted to:	
Location:		Submitted by:	
Comment:		Date Submited:	

SUBMITTAL SHEET

Genuine Comfort Wired Occupancy Thermostat

Unit Size: 4.72"W x 3.86"H x 1.1"D

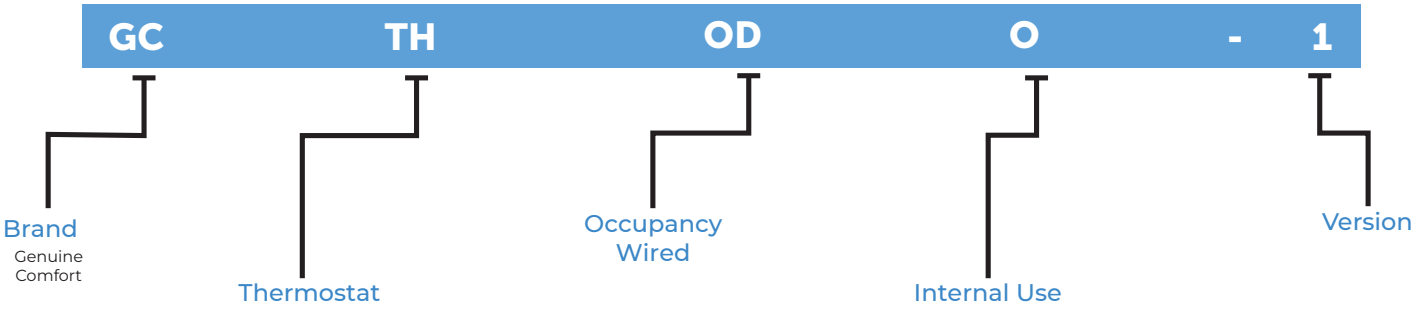
FEATURES

- Wired Thermostat
- 3 Phase Setback
- Customizable Setbacks (Time/Temp.)
- Energy Management Occupancy Sensor
- Easy Read Display
- Blue Back-Light
- Electric or Gas Configurable
- Separate B&O Terminals
- Separate Heating and Cooling Swing (Cycle Rate) Adjustments
- Room Temperature Calibration Adjustments
- 2 Minute Compressor Delay Protection (Selectable On or Off)
- Mounts on Wall
- 24V Power
- 1 Year Limited Warranty

Model: GC-THOD-O-1

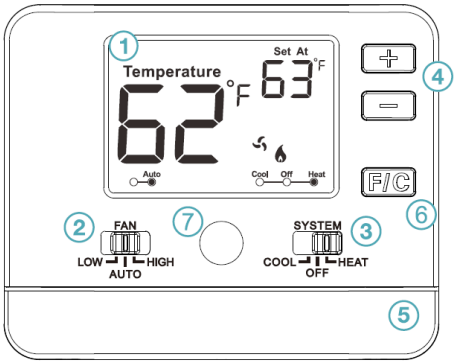
MODEL IDENTIFICATION

Example: GC-THOD-O-1

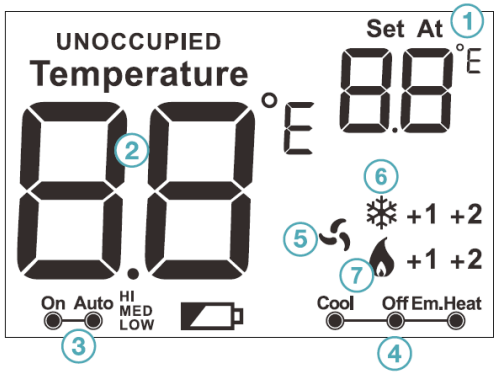


INSTALLATION INSTRUCTIONS

Thermostat Display & Indicators



1. LCD Display
2. Fan Switch
3. System Switch
4. Set-Point Buttons
5. Easy to open the face door
6. Temperature unit switching button
7. (PIR) Human body sensor detection window



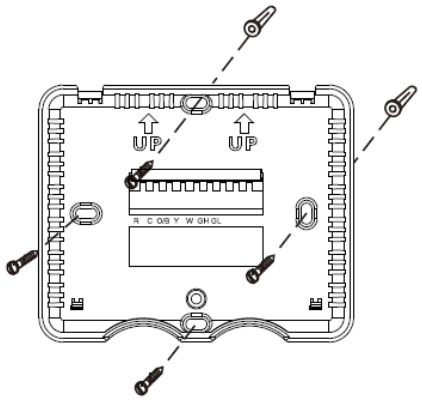
1. Displays the user selected set-point temperature
2. Indicates the current room temperature
3. Fan mode indication
4. System mode indication
5. Fan run indication
6. Cool run indication
7. Heat run indication

Safety Warnings

- Always turn off power at the main power source by unscrewing fuse or switching circuit breaker to the off position before installing, removing cleaning, or servicing thermostat.
- Read all of the information in this manual before installing or programming this thermostat.
- This is a 24V AC low voltage thermostat. Do not install on voltages higher than 30V AC
- All wiring must conform to local and national building and electrica codes and or dinances.
- Do not short (jumper) across terminals on the gas valve or at the system control to test installation. This will damage the thermostat and void the warranty.

Mounting Instructions

1. Horizontal Mount
   For a horizontal mount, put screws on the left and right.
2. Vertical Mount
   For a vertical mount, put screws on the top and bottom.



Caution: Electrical Hazard

Disconnect power before installing this product. Failure to do so can cause electric shock or equipment damage.

Mercury Notice:

This product is mercury-free. However, if this product is replacing a control which contains mercury, it needs to be disposed of properly. Contact your local waste management authority for instructions regarding recycling and proper disposal of the control.

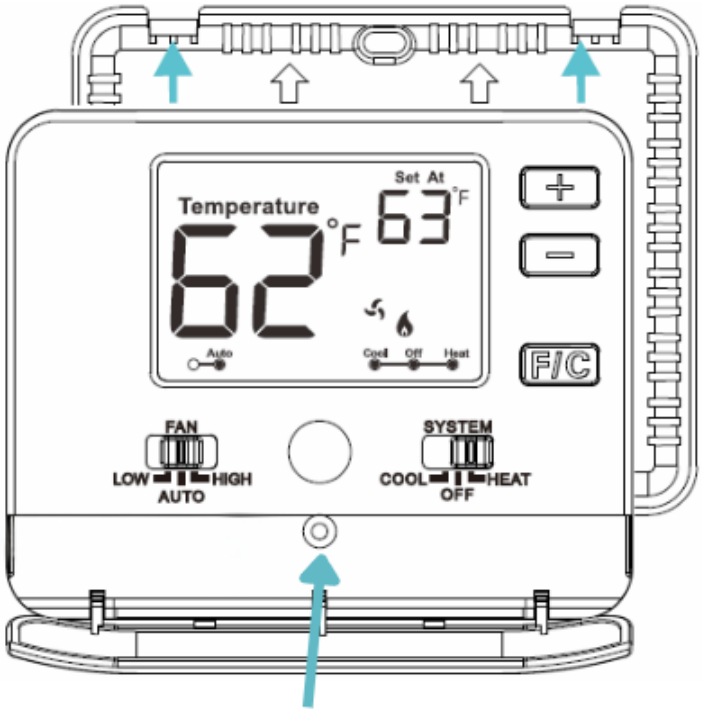
1. Install the thermostat on to the wiring board
2. Tighten the screws

Wire Specifications

Use 18- to 22-gauge thermostat wire. Shielded wire is not required.

Wiring Port Functions

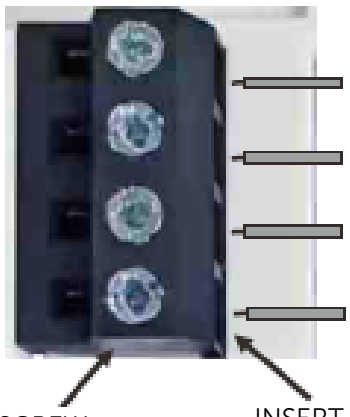
Terminal	Wiring port function
R	Transformer power-24VAC
C	Transformer common port (24VAC)
O/B	Reversing Valve/Configerable Terminal
GH	Fan control port --- High speed
GL	Fan control port --- low speed



To remove the terminal board, you must unscrew this screw.

System Modes

	Level 1 heating	Level 2 heating	Level 1 cooling
Heat Pump OFF 1H1C	W		Y
Heat Pump ON 1H1C	Y		Y
2H1C	Y	W	Y



IMPORTANT NOTICE:

Do not overtighten terminal block screws, as this can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues.
Max Torque = 6in/lbs.

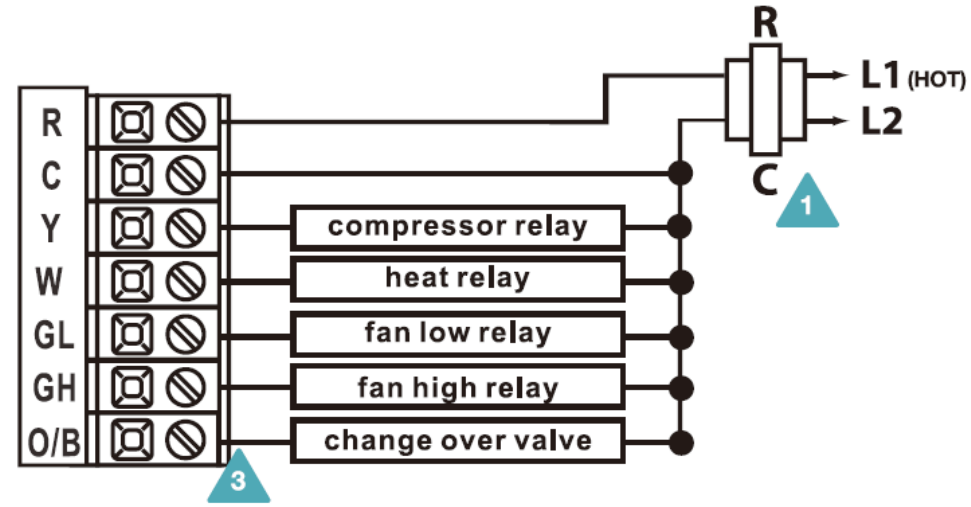
Additional Wiring Notes

1. Power supply
2. Jumper (not supplied) to connect GL and GH terminals.
3. Thermostat must be set to O and B to match the changeover valve, O is the cool changeover valve, B is the heat changeover valve.
4. The Aux Heat Relay is energized as the second stage of heat

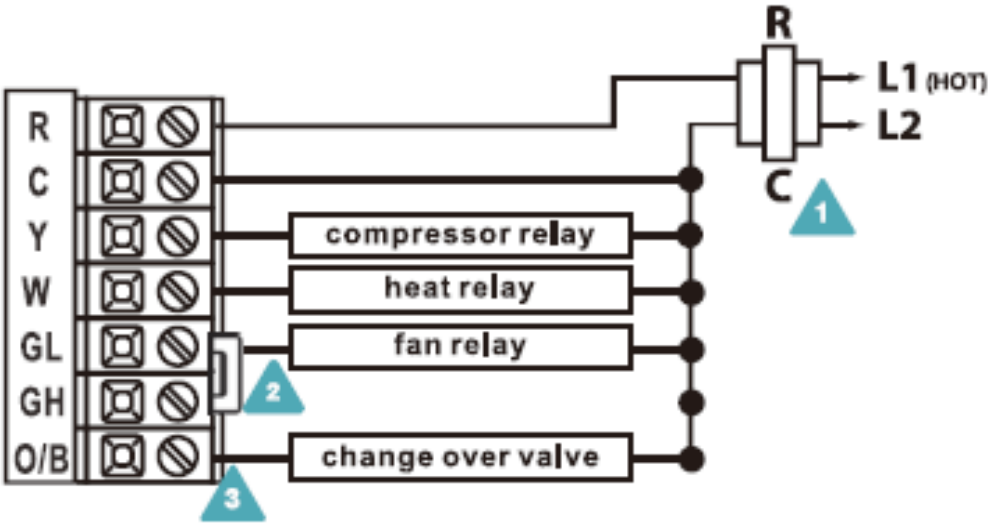
NOTE

Most PTAC systems support two speed fan operation. In a single speed fan PTAC system or conventional single speed fansystem, a jumper should be installed between GL and GH on the thermostat.

Typical 1H/1c System : 2 SpeedFan

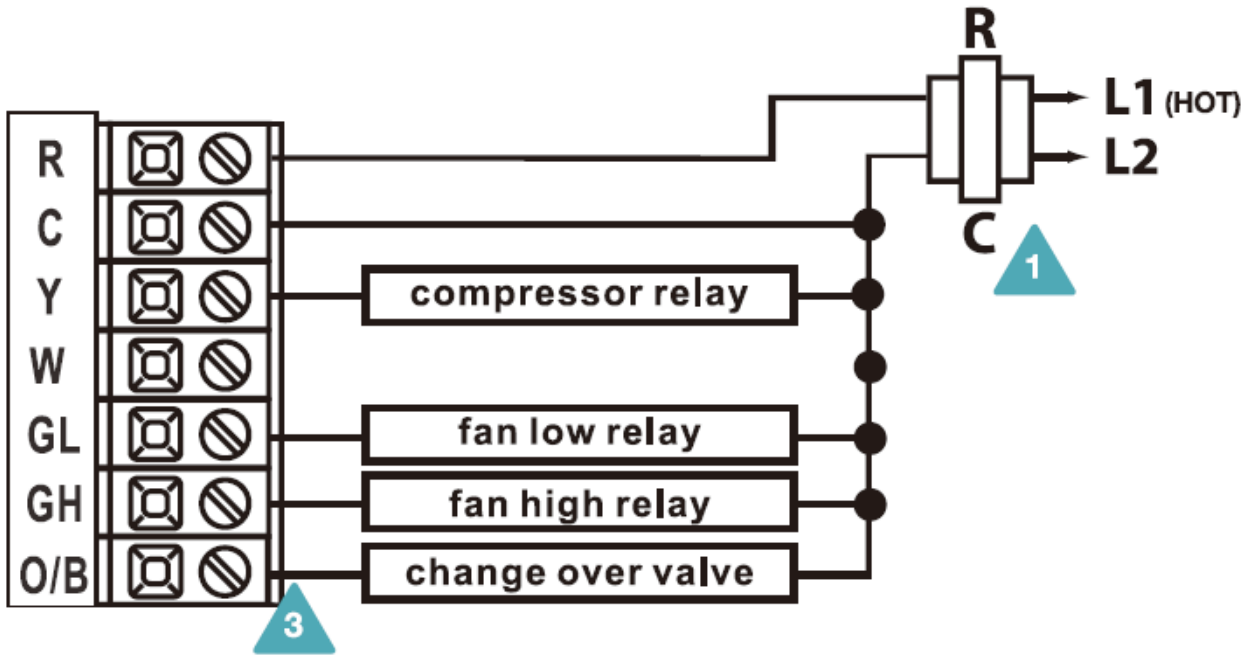


Typical 1H/1c System : 1 SpeedFan

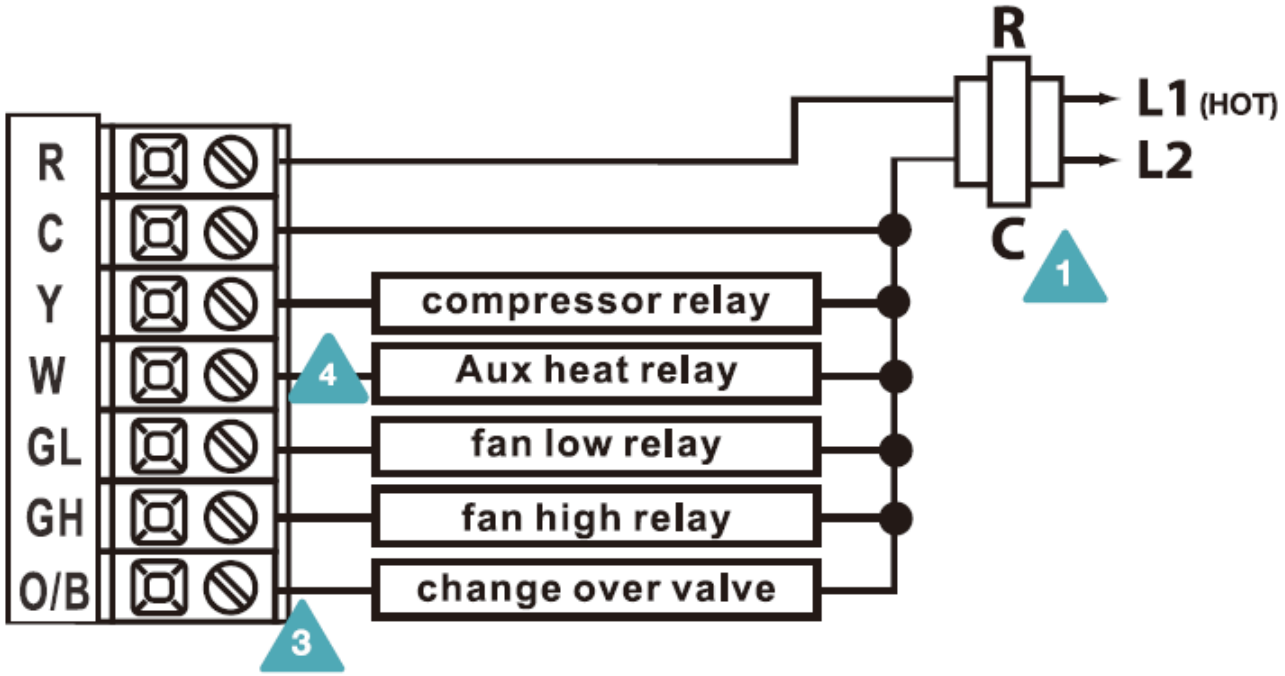


Typical Wiring Diagrams

Typical 1H/1C Heat Pump System: 2 Speed Fan



Typical 1H/1C Heat Pump System: 2 Speed Fan



SPECIFICATIONS

Model ID	GC-THOD-O-1
Display Range of Temperature	32°F to 99°F (0°C to 40°C)
Control Range of Temperature	44°F to 90°F (7°C to 32°C)
Load Rating	1 amp per terminal, 1.5 amp max all terminals combined
Display Accuracy	+/-1°F
Swing (Cycle Rate or Differential)	Heating and Cooling are adjustable from 0.2°F to 2°F
Power Source	18 to 30 VAC, NEC Class II, 50/60Hz for hardwire (common wire)
Operating Ambient	32°F to 105°F (0°C to 41°C)
Operating Humidity	90% non-condensing maximum
Dimensions of Thermostat	4.72"W x 3.86"H x 1.1"D
Setback Value Ranges	Hours: 0.5 - 24, Temperature: 0 - 20 °C