

Pro1 Technologies, Inc.

1111 S. Glenstone Ave., Suite 2-100 Springfield, MO 65804

Toll-Free: 888-776-1427 **Web:** www.pro1iaq.com **Hours of Operation:** M-F 9AM - 6PM Eastern

Thermostat Applications Guide

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (with Aux. or Emergency Heat)	Yes
Multi-stage Systems	Yes
Heat Only Systems	Yes
Cool Only Systems	Yes
Dual Fuel Systems	Yes
Millivolt	No
Humidity	Yes

Table of Contents	Page
Wireless Type Selection	2
Thermostat Quick Reference	3
Installation Tips	4-6
Wireless Communication Tips	7
Reestablishing Communication	8
Subbase Installation	9-10
Mounting & Battery Installation	11
Wiring	12-13
Technician Setup Menu	14-19
Setting The Humidity	20
Programming The Thermostat	21-24
Specifications & Notes	25

Power Type

Battery Power*
Hardwire (Common Wire)
Hardwire (Common Wire) with Battery Backup

* If using remote sensors the thermostat must be hardwired.

A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

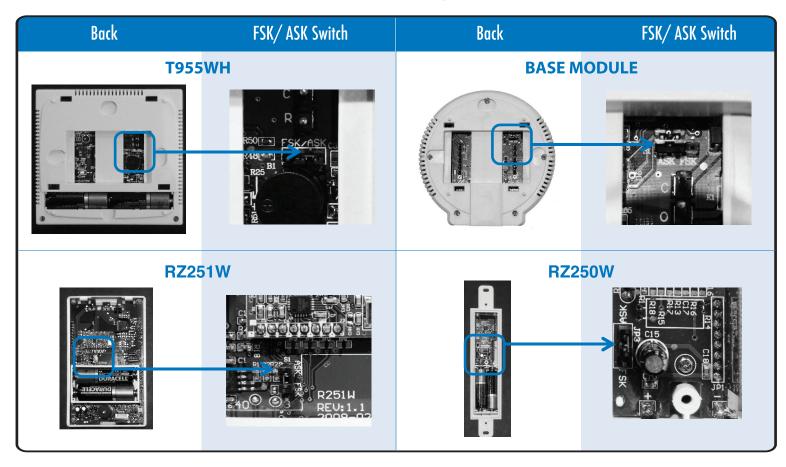
Una versión española de este manual puede ser descargada en al pagina web de la compania

WIRELESS TYPE SELECTION

The Thermostat and Base Module contain selectable wireless communication options. Each component has a jumper switch label FSK and ASK. Default setting: FSK

- All components must be set to the same position for wireless communication.
- Both modes utilize a 916 MHz frequency.
- FSK: frequency-shift keying, is the recommended mode.
- ASK: amplitude-shift keying, should be selected when using compenents that can not communicate with FSK.

The images below illustrate the location of jumper switches for each item that has one. Note only the thermostat and Base Module are included in this package.



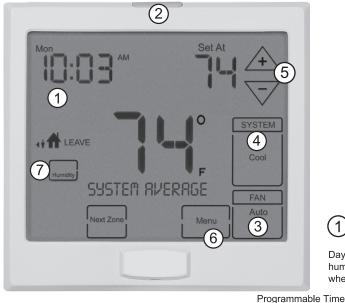
The table below lists the mode options for T955WH Wireless Thermostat and its accessories.

Component	Mode Options
T955WH Thermostat	FSK or ASK
T955WH Base Module	FSK or ASK
RZ251W - Indoor Remote *	FSK or ASK
RZ250W - Outdoor Remote *	FSK or ASK
R251W - Indoor Remote	ASK
R250W - Outdoor Remote	ASK
W150W - Wireless Repeater	ASK

^{*} Compatible with Z955W - Wireless Zoning Controller

THERMOSTAT QUICK REFERENCE

Getting to know your thermostat





LCD

Days of the week and time. Flashes ambient

Important:

The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the thermostat display will only show the low battery indicator as a final warning before the thermostat becomes inoperable. The batteries are located on the back of the thermostat.

- 2*Glow in the Dark Light Button
- (3) Fan Button
- 4 System Button
- Temperature
 Setpoint Buttons
- 6 Menu Button
- 7) Humidity Button
- * NOTE ABOUT THE LIGHT BUTTON:
 This button is used to light up the
 display, but it is also used to set up
 communication with the base module.
 DO NOT hold the light button down for
 more then 10 seconds, unless you are
 performing the initial communication
 setup steps.

humidity level. May also flash outside temperature when used with the outdoor sensor. OUTDOOR will show.

This thermostat can have 2 or 4 programmable time periods per day. Icons are displayed for 4 time periods. Occupied and unoccupied will display in the text field for 2 time periods.

Period Icons:

Temperature: Indicates the current system temperature.

Humidity: Shows the humidity target setpoint settings and keys.

Clean Display:

Pressing CLEAN DISPLAY
will allow 30 seconds to clean
the display. The keys will be
inoperable during this time.
CLEAN will appear if your
contractor has programmed a
filter change reminder. Press
CLEAN when filter has been
replaced to reset the filter
change reminder timer.

REMOTE indicates a remote has control of the system.

HOLD is displayed when thermostat program is permanently overridden.

Displays the user selectable setpoint temperature.

System operation indicators:

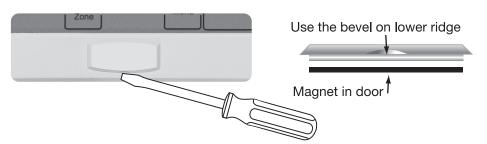
HEAT FAN

The COOL, HEAT or FAN icon will display when the COOL, HEAT or FAN is on. NOTE: The compressor delay

feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed.

> System Information: Shows which zone or zones are controlling your system. Shown only when one or more indoor sensors are connected.

Removing the private label badge



Gently slide a screwdriver into the bottom edge of the badge. Gently turn the screwdriver counter clockwise. The badge is held on by a magnet. The badge should pry off easily. **Do not use force.**

Program Menu Options:

Shows different options

during programming.

Low Battery Indicator:

Replace batteries when

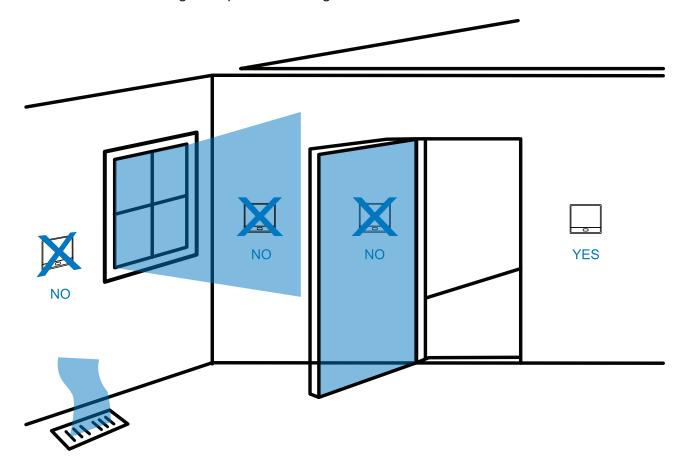
this indicator is shown.

About the Badge

All our thermostat use the same universal magnetic badge. Visit our company website to learn more about our free private label program.

Wall locations

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.



Do not install thermostat in locations:

- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes
- · Where appliances could radiate heat

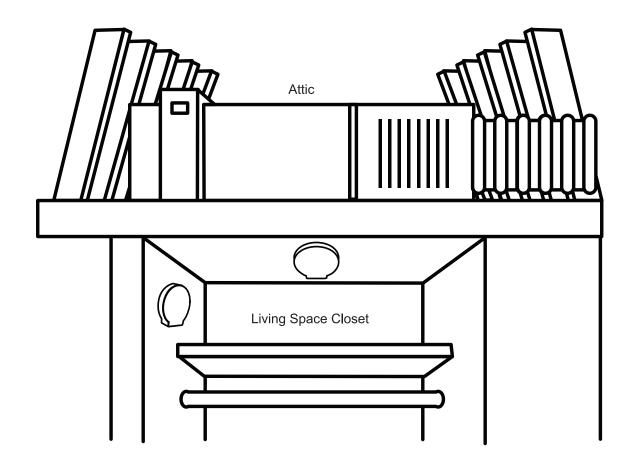
Installation Tip

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

BASEMENT INSTALLATION ON THE NEXT PAGE



When performing an attic installation, instead of placing the base module in the attic, locate the closet nearest to the air conditioning unit. Then mount the base module high on the wall inside the closet or on the ceiling of the closet. This location will insure the base module is below the 150°F maximum ambient temperature specification.



Installation Tip

Do not install the base module in locations:

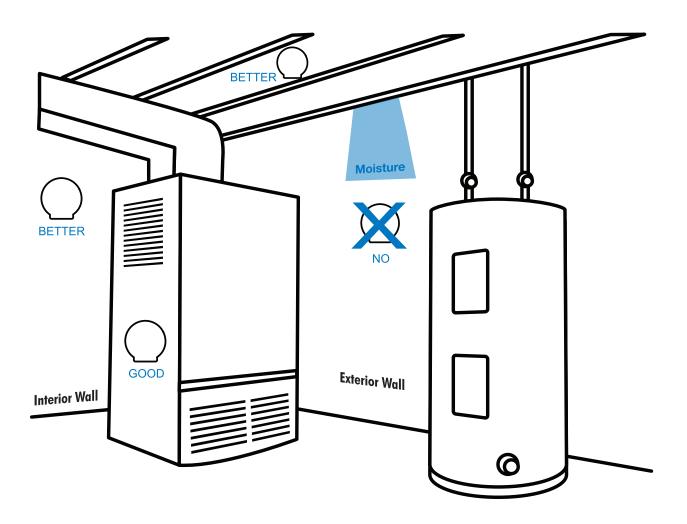
- That are behind a chimney
- Where temperature could exceed 150°F
- Where rain or snow or extreme hot or cold is possible

NOTE: The base module is NOT weatherproof.

Base Module - Basement Installation

Wireless Range

Range between the Thermostat and the base module is up to 100 feet with no obstructions and approximately 50 feet in standard residential construction. To extend the range try placing the base unit higher if in a basement or further away from large metal objects.



Installation Tip

Do not install the base module in locations:

- That are behind a chimney
- Where temperature could exceed 150°F
- Where rain or snow or extreme hot or cold is possible

NOTE: The base module is NOT weatherproof.

WIRELESS COMMUNICATION TIPS











WIRELESS REMOTE SIGNAL CONNECTION

CHECK

MASTER THERMOSTAT SIGNAL CONNECTION

CHECK

BASE MODULE SIGNAL CONNECTION

Follow these steps for a Simple Wireless Communication Setup.



- 1 Locate all components in area near equipment.
- Wire Base Module with 8ft pigtail and temporarily mount.

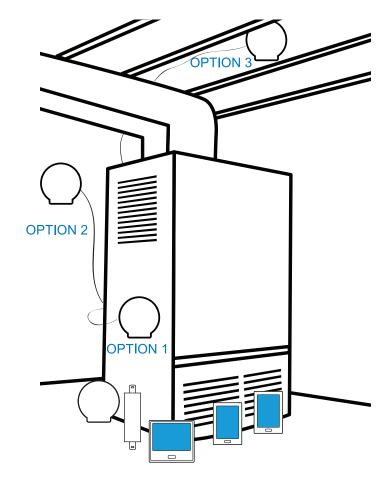
If you are not able to establish communication, this will allow you to relocate the Module to an area with less obstruction, without having to rewire.

3 Install batteries in all devices you wish to use.

Thermostat, Indoor/Outdoor Sensors.

- 4 A Press menu button on thermostat
 - (B) Press & hold tech set up button
 - Configure set up for your application
 - (D) Establish communication between devices
- 5 Install Thermostat in final location.
 NOTE: You must hardwire the thermostat when using remotes.
- Turn On fan from Thermostat to ensure communication.

Once communication is established, permanently mount module.



Troubleshooting

If there is no communication between the thermostat and Base Module devices that are less than 50ft apart, utilize an 8ft pigtail to relocate and reduce interference. If there is no communication and devices are over 50ft apart, add a W150W - Wireless Repeater. (See image to the right)



Establishing Communication between Master Thermostat and the Base Module

The thermostat and base module come factory linked out of the box. If however, communication is lost, follow this easy- Two Step process to re-establish the communication link.

- Press and hold the base module button for 3 seconds. The Blue LED will flash when ready to receive initial signal from the thermostat. (Base module must be powered by 24V. Blue LED will be continuously on when 24V power is present.)
- Hold the Light key (shown here) of the thermostat for 10 seconds, the Blue LED on the base module will stop flashing after communication has been established between base module and the thermostat.

Note:

The Blue LED on the base module will be on when power is present. The Blue LED will flash 3 times every time it receives a signal from the thermostat. When a relay is on the corresponding LED relay indicator will be on.

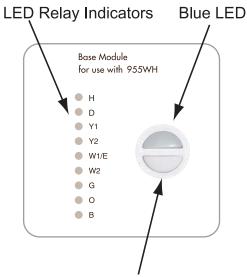
Note:

If the base module does not receive a signal from the thermostat for 15 minutes it will turn off all relays until communication is reestablished. The Blue LED on the base module will also turn off to show communication has been lost.

Note:

If communication has been lost for 1 hour and if freeze protection is enabled, heat and emergency heat relays will be turned on. The heat and emergency heat relays will turn on for 10 minutes every hour if there has been a call for heat in the last 24 hours.

Step 1.



Base Module Button

Step 2. Light key



Important:

DO NOT hold the light button on the thermostat for more than 10 seconds after Step 2 above has been completed. Holding the light button down will break the communication link and the base module button will need to be pressed again to reestablish communication.

MASTER THERMOSTAT SUBBASE INSTALLATION



Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.



Mercury Notice:

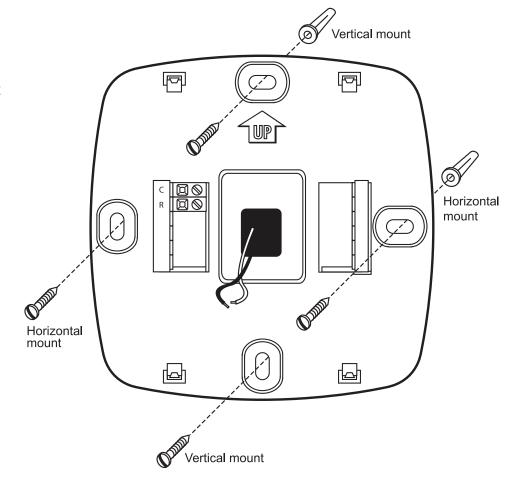
All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

For vertical mount put one screw top and one screw bottom.

For horizontal mount put one screw left and one screw right.

NOTE:

To insure a solid fit between the thermostat and the subbase, mount the subbase on a flat wall with the drywall anchors flush to the wall. Using the screws and drywall anchors that were provided with the thermostat.



Note:

The thermostat can be battery powered only if used as a stand-alone thermostat solution.

The thermostat must be hardwired (C and R terminals connected to 24V power) if indoor or outdoor remote sensors are used.

Wiring Note:

Wire the base module's subbase the same way you would wire a hardwired thermostat subbase.

Note:

To connect the base module to master thermostat, refer to the directions on page 8 of this manual.

For vertical mount put one screw top and one screw bottom. Vertical mount For horizontal mount put one screw left and one screw right. UP I 回 **⊘** □ Rc Horizontal mount **◎ 🏻** Y1 W1/E 同 Horizontal mount Vertical mount

Note:

The base module must be hardwired (C and R terminals connected to 24V power).

MOUNT THERMOSTAT & BATTERY INSTALLATION

Mount Thermostat and Base Module

Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat or base module. Then push gently until the thermostat or base module snaps in place.

Note: To insure a solid fit between the thermostat and the subbase:

- 1. Mount subbase to a flat wall
- 2. Use screws provided
- 3. Drywall anchors should be flush with the wall
- 4. Wires should be pushed into the wall



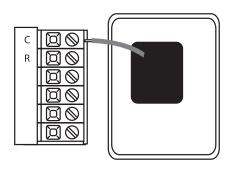


Note:

The base module can be wired from the back or the bottom.

Battery Installation

Battery installation is optional if there are no remotes connected to the Master Thermostat (C terminal connected)**If you connect an outdoor remote and/or indoor remote sensors it is required the thermostat be hardwired.**





On the back of the thermostat insert 2 AA Alkaline batteries (included).

Wiring

- If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the G terminal.
- 2. Loosen the terminal block screws. Insert wires then retighten terminal block screws.



Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.

Wire specifications

Use shielded or non-shielded 18 - 22 gauge thermostat wire.

Note:

In many heat pump systems with no emergency heat relay a jumper can be installed between E and W2.

Terminal Designations on Base Module

This thermostat is shipped from the factory to operate a conventional heating and cooling system. This thermostat will also operate a heat pump system. See the "heat pump" configuration step on page 16 of this manual to configure the thermostat for heat pump applications.

Terminal	2 Heat 2 Cool Conventional System	2 Heat 2 Cool Heat Pump System	3 Heat 2 Cool Heat Pump System
RC	Transformer power (cooling)	Transformer power (cooling)	Transformer power (cooling)
RH	Transformer power (heating)	Transformer power (heating)	Transformer power (heating)
C	Transformer common	Transformer common	Transformer common
В	Energized in heating	Heat pump changeover valve energized in heating	Heat pump changeover valve energized in heating
0	Energized in cooling	Heat pump changeover valve energized in cooling	Heat pump changeover valve energized in cooling
G	Fan relay	Fan relay	Fan relay
W/E	First stage of heat	First Stage of Emergency Heat	First Stage of Emergency Heat
Υ	First stage of cool	First stage of heat & cool	First stage of heat & cool
Y2	Second stage of cool	Second stage of cool	Second stage of cool & second stage of heat
W2	Second stage of heat	Auxiliary heat relay, second stage of heat	Auxiliary heat relay, third stage of heat
Н	Humidify	Humidify	Humidify
D	Dehumidify	Dehumidify	Dehumidify

Terminal Designations on the Master Thermostat

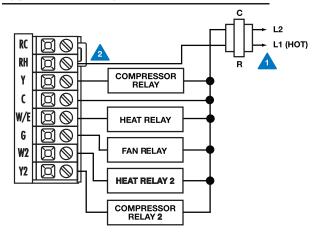
Terminal	2 Heat 2 Cool Conventional System	2 Heat 2 Cool Heat Pump System	3 Heat 2 Cool Heat Pump System
R	24 VAC Transformer power	24 VAC Transformer power	24 VAC Transformer power
С	Transformer common	Transformer common	Transformer common

Powering the Master Thermostat

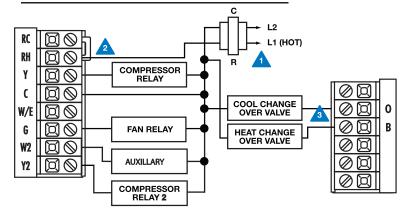
STALLATION WIRINGL

- Power supply.
- Factory-installed jumper. Remove only when installing on 2-transformer systems.
- Use either O or B terminals for changeover valve.
- If DEHUM Relay requires a normally-energized input, set Dehumidity Relay to NC in Technician Setup.

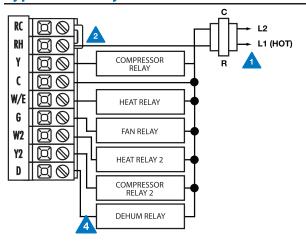
Typical 2H/2C system: 1 transformer



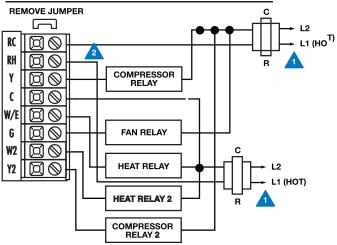
Typical 3H/2C heat pump system



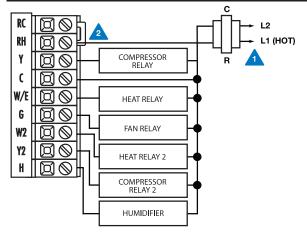
Typical 2H/2C system with Dehum Terminal



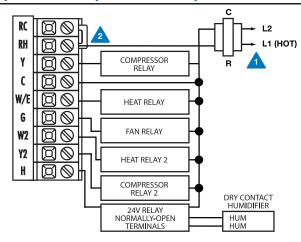
Typical 2H/2C system: 2 transformer



Typical 2H/2C system with 24VAC Humidifier



Typical 2H/2C system with Dry Contact Humidifier



Technician Setup Menu

This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:

- 1. Press **MENU** button
- 2. Press and hold **TECHNICIAN SETUP** button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.
- 3. Configure the installer options as desired using the table below.

Use the or + keys to change settings and the **NEXT STEP** or **PREV STEP** key to move from one step to another. Note: Only press **DONE** key when you want to exit the Technician Setup options.

lack FLI in the display of the the installer to change the collibration of the room responsibility of the the legisped run time to remind the user to change the lither. A setting of DFF will disable withis feature. In the installer to select the minimum run time for the compressor from the compressor room remperature display. For example, if the thermostat reads 70° and you would like it to read 72° then select + 2. In the installer to select the minimum run time for the compressor room from the compressor room for the compressor room for the compressor room select the compressor room select the compressor room the compressor room the compressor room the compressor room select the compressor room the compressor roo	display after the change the change the elapsed run time to remind the user to change the filter. A setting of OFF will disable this feature. It converted that the compressor to the compresso	Filter Change Reminder	Room Temperature Calibration	Minimum Compressor On Time	Compressor Short Cycle Delay	Cooling Swing	Heating Swing	Keypad Lockout
OFF to 2000 hours of runtime increments. You can adjust the room temperature display to read -4°F to -4°F above or below the factory calibrated reading. You can select the minimum compressor run time from "off", "3", "4", or "5" minutes after the last time the compressor vall run for at least the selected time before turning off. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. The cooling swing setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the tooling on at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F below the setpoint and turn the heacting off at approximately 0.5°F below the setpoint and turn the heacting off at approximately 0.5°F below the setpoint and turn the heacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and turn the reacting off at approximately 0.5°F below the setpoint and tur	Adjustment Options You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments. You can adjust the cooling on at approximately 0.5°F above the selected time before turning off. You can adjust the minimum compressor run time from "off", "3", "4", or "5" minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. PA = particular to proximately 0.5°F will turn the cooling on at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the	flash FILT in the display after the elapsed run time to remind the user to change the filter. A setting of OFF will disable	the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70° and you would like it to read 72° then	installer to select the minimum run time for the compressor. For example, a setting of 4 will force the compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room	cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 minutes after it was	often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will	rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer	allows you to configure the thermostat so that none or some of the keys do not
You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can select the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to remove this delay. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can adjust the minimum compressor run time from "off", "3", "4", or "5" minutes after the last time the compressor was on. Select OFF to remove this delay. The cooling swing setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the cooling off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the heating off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the cooling off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the cooling off at approximately 0.5°F above the will not allow the compressor was on. Select OFF above the setpoint and turn the cooling o	You can adjust the filter change reminder from OFF to 2000 hours of runtime increments. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can select the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Selecting ON will not allow the cooling setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F above the Note: Keyp.	LCD Will Show						
You can adjust the filter change reminder from DFF to 2000 hours of runtime in 50 hour in 50 hour increments. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can select the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to remove this delay. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading. "3", "4", or "5" minutes after the last time the compressor was on. Select OFF to -5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to -5°F will turn the cooling on at approximately 0.5°F below the setpoint and turn the cooling off at approximately 0.5°F above the Note: Keypad lockout, which lock out all the keys.	You can adjust the filter change reminder from the filter change reminder from to 2000 hours of runtime factory calibrated reading. You can adjust the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to remove this delay. You can adjust the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off. You can adjust the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off. Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay. Full lockout, will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay.		CALISATE (no. 1) (no. 1)	OFF ON S		0.5 dF ⇔	SH SHE	PR
the filter change reminder from OFF to 2000 hours of runtime increments. minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor was on. Select OFF to remove this delay. minimum compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the cooling off	the filter change reminder from OFF to 2000 hours of runtime increments. minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off. minimum compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF above the setpoint and turn the cooling off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F above the setpoint and tu	Adjustment Options						
		the filter change reminder from OFF to 2000 hours of runtime in 50 hour	room temperature display to read -4°F to +4°F above or below the factory	minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before	allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF	setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the	setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the heating on at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F above the	PA = partial keypa lockout, which locks all the keys except or V keys. FU = Full keypad lockout, which locks

Note: The function of activating your Keypad Lockout choice takes place after you have exited Tech Setup. If you do not perform this activation procedure, all keys will function freely. To lock the keypad hold down the \triangle and ∇ keys for 3 seconds. You will see a lock in the display. To unlock the keypad hold down the \triangle and ∇ keys for 3 seconds.





TECHNICIAN SETUP MENU

Tech Setup Step	s (Continued from	the previous page)				
Heating Temperature Setpoint Limit	Cooling Temperature Setpoint Limit	°F or °C	12 or 24 Hour Clock	Morning Recovery	Program Options	Time Periods
This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.	This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.	Select F for Fahrenheit temperature read out or select C for Celsius read out.	You can select either a 12 or 24 hour clock setting.	This feature will start heating early to bring the building temperature to its programmed setpoint by the begining of the time period (WAKE, OCCUPIED).	You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.	You can configure this thermostat to have 2 or 4 programmable time periods per day. 2 Time Periods is Occupied/Unoccupied 4 Time periods is Wake, Leave, Return, Sleep.
LCD Will Show			15 H		5 d	Y △ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Adjustment Option	ns		Time to a second to a	(material) (managed to the control of the control o	Committee (Committee)	(manage (manage)
Use the <- or >- key to select the maximum heat setpoint.	Use the or be key to select the minimum cool setpoint.	°F for Fahrenheit °C for Celsius	Use the or key to select 12 or 24 hour clock.	Use the < or > key to turn on or off.	Use the or key to select 7d for 7 day, 5d for 5+1+1, or 0d for nonprogammable.	Use the < or key to select 4, 2C or 4
Factory Default Set	ttings 44°F	°F	12 Hour Clock	ON	5d	4



Swing Setting Tip

The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is .5 degrees for heating and the thermostat is set at 70°F, the first stage will turn on at approximately 69.5°F. The second stage will turn on at 69.0°F. The second stage will turn off at 69.5°F and the first will turn off at 70.5°F. If third stage is used, it will turn on at 3x the swing and turn off at approximately 2x the swing.

Tech Setup Steps (Continued from the previous page) Contractor **Heat Pump** System **Gas Auxiliary** Beep Fan Display **Pre Occupancy** Call Number Switch **Operation** for Heat Pump Light Fan This option will turn The display light can When any key is You can configure the Allows you to put When turned on Select GAS for The pre occupancy pressed an audible system switch for the the heat pump off 45 be configured to stay your phone the thermostat systems that control fan settings will number in the seconds after the beep will sound. particular application: will operate a the fan during a call on all the time or energize the fan auxiliary heat relay display. heat pump. for heat. come on when any before the occupied turns on. Heat - Off - Cool, You can choose key is pressed. You can choose ON or OFF Heat - Off, time to provide 1. EM.Heat will Select ELEC to have For 2 heat ventilation prior to ON or OFF Cool - Off, applications, the first stage will turn off 45 seconds after the show as an option the thermostat Heat - Off - Cool-Auto NOTE: in the system control the fan during scheduled switch. a call for heat. **HARDWIRE ONLY** occupancy. Note: EM. Heat will auxiliary stage turns Keeping the display show if in heat pump 2. Y will be first on. light continually "ON" This feature only stage of heat & cool, W/E will be will greatly reduce shows if technician For 3 heat applications, the first emergency heat battery life. setup step for time and second stage will relay & W2 will periods is set to turn off 45 seconds be auxiliary heat 2C or 4C. after the auxiliary relay. stage turns on. LCD Will Show OFF ⊲⊳ OFF **6 RS** ≪1 D PRE OCCUPANCY FAM **Adjustment Options** If selected ON , you will see the input Use the <- or +> key until the desired For heat pump systems that are "dual fuel" (use a gas You can select the OFF configures display **OFF** configures If ON is selected GAS the thermostat light to come on when the beep will pre occupancy fan screen after pressing sound. for non heat application is the light key or any from OFF, 1, 2, or next step. or furnace for auxiliary pump systems. flashing. 3 hours. key on screen is stage heat) you can If OFF is selected, Use the < or to select the turn this feature on **ELEC** pressed. there is no sound. ON configures to turn off the heat If 1, 2, or 3 is desired number and the thermostat pump when the the FAN or SYSTEM for heat pump selected, the fan ON configures the auxiliary stage of heating has been called for. key to move from systems. display light to stay on. will turn on that oné character to many hours prior Use the < or |>> another. See note key to turn on or off. to the scheduled below on operation. occupied time period. **Factory Default Settings**

OFF

Heat - Off - Cool

Note: If contractor Call Number is selected ON, your phone number will show in the display if there has been a continuous call for heating or cooling for 24 hours or if the light button is held down for 3 seconds. To remove the phone number from the display, hold the light button down for 3 seconds.

ON

OFF

OFF

OFF.



GAS



OFF.

TECHNICIAN SETUP MENU

Tech Setup Steps	Tech Setup Steps (Continued from the previous page)						
Cooling Fan Delay	Outdoor Sensor	Remote Sensor	Finding Sensor	Local Temp Sensor	Freeze Protection	Stages of Heat	
The cooling fan delay setting will delay the fan from coming on in cool mode and keep running after the compressor shuts off for a short time to save energy in some systems.	Enables the use of an outdoor sensor. Connecting a outdoor sensor allows for a balance point setting. Selecting YES requires the master thermostat to be powered with 24V on C and R terminals. See the outdoor sensor guide for more information.	Enables the use of up to four indoor sensors Selecting YES requires the master thermostat to be powered with 24V on C and R terminals.	This step connects the indoor sensor with the master thermostat. The previous step Remote Sensor must be set to YES in order to connect an indoor sensor.	Disable the sensor on the master. At least one indoor remote sensor must be connected to disable the local sensor.	Turns on the heat for 10 minutes each hour if unable to communicate with the master thermostat if there has been a call for heat in the last 24 hours.	You can configure the thermostat to operate a 3 stage heat pump system. 2H 2C = 2 heat, 2 cool 3H 2C = 3 heat, 2 cool This feature only shows if Technician Setup Step for HEAT PUMP is set to ON.	
LCD Will Show							
COD. FRI del Pa	01/600° 50/500° 10	RESULTS SENSOR Less to be less t	Finalis Sections	U001. 199° 90-50°	FREEN PROTECTION	SHEE STREE	
Adjustment Options							
You can select Cooling Fan Delay from OFF, 15, 30, 60 or 90 seconds. If 15,30,60,or 90 selected the fan will not turn on for that many seconds when there is a call for cool and will run for that many seconds after satisfying a call for cool.	When NO is selected the thermostat is unable to connect to an outdoor remote sensor. When YES is selected the thermostat is able to connect to an outdoor remote sensor. Press and hold connect button on outdoor sensor until the master thermostat says FOUND OUTDOOR on display.	When NO is selected the thermostat is unable to connect to an indoor remote sensor. When YES is selected the thermostat is able to connect to up to four indoor remote sensors. Go to the next step FINDING SENSOR to connect indoor sensors.	The number shown represents the zone. Use or to select the zone you wish to connect. The zone setting on the master and the indoor sensors must be the same to connect. See Indoor Sensors user guide for detailed connection information. See note below for more information.	YES enables local sensor. NO disables local sensor.	YES enables freeze protection NO disables freeze protection	Use the or we key to change between 2 heat and 3 heat. 2 heat will use Y1 as first stage and W2 as auxiliary. 3 heat will use Y1 as first stage, Y2 as second stage and W2 as auxiliary.	
Factory Default Sett	ings						
OFF	NO	NO	1	YES	NO	2 Stages	

Note:

Up to four indoor temperature sensors can be connected to one thermostat. This allows for 5 sensing points (zones). For Example: The local (thermostat) plus four indoor sensors enables 5 sensing points. To connect an indoor sensor to a thermostat, Select 1 on the FINDING SENSOR technician setup step. Then select Zone 1 on the indoor sensor technician setup step. Then hold down the light button on the indoor sensor until it beeps, while in ZONE technician setup step on the indoor sensor. To connect a second indoor sensor change the thermostat to read 2 and change the indoor sensor to zone 2. The zone setting must match between the thermostat and the indoor sensor to connect. When the connection is established the thermostat will show FOUND + NAME of the indoor sensor in the system information area of display.

TECHNICIAN SETUP MENU

Requires Outdoor Sensor			Tech Setup Step	os (Continued fron	n the previous page	e)
Balance Point (Gas Auxiliary ON)	Balance Point (Gas Auxiliary OFF)	Balance Run Time	Humidify	Dehumidify	Humidity Calibration	Dehumidify with AC
Balance point can eliminate the need for fosil fuel kit. An outdoor temperature above balance point will cause the thermostat to only allow the Y terminal(s) to energize. An outdoor temperature below balance point will cause the thermostat to only allow W2 to energize.	Balance point with electric auxiliary can optimize Heat Pump usage. An outdoor temperature above balance point will cause the thermostat to only allow the Y terminal(s) to energize. An outdoor temperature below balance point will cause the thermostat to allow the Y terminal(s) and the W2 terminal to energize. Note: Only shows up if Heat	Balance point run time will allow the W2 auxiliary terminal to energize even if outdoor temperature is above the selected balance point temperature. If enabled, auxiliary will energize for the current cycle after the balance point run time has expired.	This feature adds humidity when System key is in Heat .	This feature removes humidity when System key is in Cool.	This feature allows the installer to change the calibration of the ambient humidity displayed.	This feature forces the A/C to run longer to remove humidity when needed. the A/C will "over cool" the room a few degrees until the humidity reaches the desired setpoint.
Note: Only shows up if Heat Pump is set to YES. Outdoor Sensor is turned ON, and GAS Auxiliary is turned ON.	Pump is set to YES and Outdoor Sensor is turned ON and GAS Auxiliary is turned OFF .		See Terminal Options on following page.	See Terminal Options on following page.		
LCD Will Show						
SES 40 \$	SES 40 \$\infty\$	IR PACE RAI 11 SE	OFF S	OFF STANDARD	HERE COLLABOTE WHEN THE	OF SET
10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting.	10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting.	YES 15, 30, 45, 60, 75, 90 continuous run time minutes. NO	Use the or key to turn on or off. If ON is selected the humidity will be displayed on the main screen and Hum terminal will energize when humidity setpoint is above ambient humidity in Heat mode.	Use the or bkey to turn on or off. If ON is selected the humidity will be displayed on the main screen and DHM terminal will energize when humidity setpoint is below ambient humidity in Cool mode.	Use the <- or >- key to adjust the calibration +/ - 3.	Use the <- or >- key to select YES or NO If selected Yes, allows over cooling to be used to control humidity in Cool mode. If NO is selected the system will not use over cooling.
Factory Default Sett	ings					
NO	NO	NO	OFF	OFF	0	NO

Balance Point:

The system operates differently when a balance point is used. On a dual fuel system, the balance point outdoor temperature setting will be the outdoor temperature at which the thermostat chooses either the heat pump or gas furnace. For Example: A balance point setting of 30°F will turn on only the heat pump above 30°F and only the gas furnace below 30°F. Y1 will be stage one above 30°F and W2 will be stage one below 30°F.

A heat pump with electric auxiliary will energize the heat pump above and below balance point. The electric auxiliary will only energize below balance point. For Example: A Balance point setting of 40°F, will turn on the heat pump above 40°F and turn on the heat pump and electric auxiliary below 40°F.

Tech Setup Steps	(Continued from the	previous page)			
Over Cool Limit	HUM Termina l	DHM Terminal	Dehumidify Relay	Satisfy Setpoint	Staging Delay
The amount of over cooling allowed when using A/C to remove humidity. This screen is only shown when ON is selected in the "Dehumidify with AC" tech setup step.	Options for how the HUM terminal energizes.	Option for how DHM terminal energizes. Note: Set as option 1 if DEHUM with AC is set to YES.	You can configure the D Terminal as Normally-Open or Normally-Closed. NO = Normally-Open NC = Normally-Closed See Note Below	This feature allows the thermostat to keep multiple stages of heat or cool energized until setpoint is satisfied.	This feature allows a delay to occur when a second and third stage is needed. This allows the previous stage extra time to satisfy setpoint.
LCD Will Show					
3	HER TERUTER When the mountain and	Set 1990/98.	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	SS STRANG	SINCHS dELPS
Adjustment Options	5				
Use the or be key to select the maximum number of degrees of over cool. Options are: 2, 3, 4, 5	Use the or bkey to select one of the four options. View the HUM Terminal chart below for an explanation of these options.	Use the or key to select one of the four options. View the DHM Terminal chart below for an explanation of these options.	Use the or key to select NO or NC. If NO is selected, D will energize to dehumidify. If NC is selected, D will be normally energized. D will de-energize to dehumidify.	Use the or key to turn on or off.	Use the or key to select the number of minutes to delay each stage. OFF 5, 10, 15, 30, 45, 60, 90 delay minutes.
Factory Default Sett	ings				
3	1	1	NO	OFF	OFF

Note:

When the Dehumidify terminal is configured as Normally-Closed, the Base Module D terminal LED indicator will be lit when the relay is closed. When the thermostat calls for Dehumidification, the D terminal LED indicator will turn off.

HUM Te	HUM Terminal		M Teri	minal
OPTIONS	HUM terminal energizes when the ambient humidity is	OP ⁻	TIONS	DHM terminal energizes when the ambient humidity is
1	below the humidity setpoint and heat or fan is energized.		1	above the humidity setpoint and cool or fan is energized.
2	below the humidity setpoint and heat is energized.		2	above the humidity setpoint. It will also energize the fan during a call for humidity.
3	below the humidity setpoint. It will also energize the fan during a call for humidity.		3	above the humidity setpoint.
4	below the humidity setpoint.		4	above the humidity setpoint and the compressor is not running.

SETTING THE HUMIDITY

Follow the steps below to change your target humidity setpoint.

Press the HUMIDITY key

Use the or key to select the target humidity setpoint.

Press DONE when completed

Note:

The target humidity setpoint is not programmable. Unlike temperature, humidity does not change quickly and should not be programmed.

Note:

Humidity is only energized during heat. Dehumidify is only energized during cool. Heat and Cool each have their own target setpoints.



HUMIDITY KEY



Ambient Humidity Display

Ambient humidity will flash opposite the day and time, if the optional outdoor temperature sensor is installed the ambient outdoor temperature will also cycle in the display.



AMBIENT HUMIDITY



DAY & TIME



OUTDOOR TEMPERATURE

Increasing Humidity

The table on the right shows recommended indoor humidity levels in relation to outdoor temperatures during heating (adding humidity).

Outside Temperature (0°F)	Recommended Relative Humidity
+20° and above	35% to 40%
+10°	30%
0°	25%
-10°	20%
-20°	15%

Recommended Cooling Settings:

Set Time

Follow the steps below to set the day of the week and current time:

- 1. Press MENU
- 2. Press SET TIME
- 3. Use the or key to select the current day of the week.
- 4. Press NEXT STEP
- 5. Use the or key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
- 6. Press NEXT STEP
- 7. Use the or + key to select current minutes.
- 8. Press DONE when completed

Programming

All our programmable thermostats are shipped with an energy saving pre-program. You can customize this default program by following the Set Program Schedule.

Your thermostat can be programmed to have each day of the week programmed uniquely (7 days), all the weekdays the same, a seperate program for Saturday, and a seperate program for Sunday (5+1+1), or non-programmable. There are three time period options for each program. 1. Residential '4' (WAKE, LEAVE, RETURN, SLEEP) 2. '2C' Commercial (OCCUPIED, UNOCCUPIED) 3. '4C' Commercial (OCCUPIED 1, UNOCCUPIED 2, UNOCCUPIED 2). This thermostat has a programmable fan feature, which allows you to run the fan continuously during any time period.

	Factory Default Program					
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool)		
Weekday	Wake / OCC 1	6 a.m.	70° F (21° C)	75° F (24° C)		
	Leave / UNOCC 1	8 a.m.	62° F (17° C)	83° F (28° C)		
	Return / OCC 2	6 p.m.	70° F (21° C)	75° F (24° C)		
	Sleep / UNOCC 2	10 p.m.	62° F (17° C)	78° F (26° C)		
Saturday	Wake / OCC 1	8 a.m.	70° F (21° C)	75° F (24° C)		
	Leave / UNOCC 1	10 a.m.	62° F (17° C)	83° F (28° C)		
	Return / OCC 2	6 p.m.	70° F (21° C)	75° F (24° C)		
	Sleep / UNOCC 2	11 p.m.	62° F (17° C)	78° F (26° C)		
Sunday	Wake / OCC 1	8 a.m.	70° F (21° C)	75° F (24° C)		
	Leave / UNOCC 1	10 a.m.	62° F (17° C)	83° F (28° C)		
	Return / OCC 2	6 p.m.	70° F (21° C)	75° F (24° C)		
	Sleep / UNOCC 2	11 p.m.	62° F (17° C)	78° F (26° C)		

PROGRAMMING THE THERMOSTAT

	Factory Default Program for 2 Time Periods					
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool)		
Weekday	Occupied	8 a.m.	70° F (21° C)	73° F (23° C)		
	Unoccupied	6 p.m.	64° F (18° C)	80° F (27° C)		
Saturday	Occupied	8 a.m.	70° F (21° C)	73° F (23° C)		
	Unoccupied	6 p.m.	64° F (18° C)	80° F (27° C)		
Sunday	Occupied	8 a.m.	70° F (21° C)	73° F (23° C)		
	Unoccupied	6 p.m.	64° F (18° C)	80° F (27° C)		

You can use the table below to plan your customized program schedule if using 5+1+1.

	Programming Table							
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool				
Weekday	Wake / OCC 1							
	Leave / UNOCC 1							
	Return / OCC 2							
	Sleep / UNOCC 2							
	Occupied							
	Unoccupied							
Saturday	Wake / OCC 1							
	Leave / UNOCC 1							
	Return / OCC 2							
	Sleep / UNOCC 2							
	Occupied							
	Unoccupied							
Sunday	Wake / OCC 1							
	Leave / UNOCC 1							
	Return / OCC 2							
	Sleep / UNOCC 2							
	Occupied							
	Unoccupied							

PROGRAMMING THE THERMOSTAT

Set Program Schedule For Four Time Periods (WAKE, LEAVE, RETURN, SLEEP or OCCUPIED 1, UNOCCUPIED 2, UNOCCUPIED 2)

To customize your 5+1+1 program schedule, follow these steps Weekday:

- Select HEAT or COOL using the SYSTEM key. Note: You have to program heat and cool each separately.
- 2. Press MENU.
- Press SET SCHED. Note: Monday-Friday is displayed and the WAKE/OCC1 icon is shown. You are now programming the WAKE/OCC1 time period for the weekday setting.

Additional step if indoor remote sensor is connected.

The master thermostat will either average all sensors (system average) or only use one sensor for the system ambient temperature (priority). The default setting is SYSTEM AVERAGE, which means all sensors are averaged to create the system average ambient temperature reading. The NEXT ZONE key can be pressed to change the priority. The system information area of the display shows the priority.

For Example: There is an indoor remote connected and it is named REMOTE 1. If the NEXT ZONE key is pressed until REMOTE 1 is shown, then the REMOTE 1 ambient temperature reading will be used exclusively for that time period. All other sensors will be ignored.

- 4. Use the selection for the weekday **WAKE/OCC1** time period. Note: If you want the fan to run continuously during this time period, select **ON** with the **FAN** key.
- 5. Press **NEXT**
- 6. Use the /+\ or \ /- key to make your setpoint selection for the weekday **WAKE/OCC1** period.
- Press NEXT
- Repeat steps 4 through 7 for weekday LEAVE/UNOCC1 time period, for weekday RETURN/OCC2 time period, and for weekday SLEEP/UNOCC2 time period.

To customize your 7 day program schedule, follow these steps:

Monday

- 1. Select **HEAT** or **COOL** using the **SYSTEM** key. You have to program heat and cool each separately.
- 2. Press MENU
- 3. Press SET SCHED.

Note: Monday is displayed and the **WAKE/OCC1** icon is shown. You are now programming the **WAKE/OCC1** time period for the monday setting.

- 4. Use the or key to make your time selection for the Monday WAKE/OCC1 time period. Note: If you want the fan to run continuously during this time period, select ON with the FAN key.
- Press NEXT
- 8. Repeat steps 4 thru 7 for Monday **LEAVE/UNOCC1** time period, for Monday **RETURN/OCC2** time period, and for Monday **SLEEP/UNOCC2** time period.

Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

Repeat steps 4 thru 7 for the remaining days of the week.

Saturday:

9. Repeat steps 4 through 7 for Saturday WAKE/OCC1 time period, for Saturday LEAVE/UNOCC1 time period, for Saturday RETURN/OCC2 time period, and for Saturday SLEEP/UNOCC2 time period.

Sunday:

10. Repeat steps 4 through 7 for Sunday WAKE/OCC1 time period, for Saturday LEAVE/UNOCC1 time period, for Sunday RETURN/OCC2 time period, and for Saturday SLEEP/UNOCC2 time period.

Set Program Schedule For Two Time Periods (OCCUPIED, UNOCCUPIED)

To customize your 5+1+1 program schedule, follow these steps

Weekday:

- Select HEAT or COOL using the SYSTEM key. Note: You have to program heat and cool each separately.
- 2. Press MENU.
- 3. Press **SET SCHED**. Note: Monday-Friday is displayed and the **OCCUPIED TEXT** is shown. You are now programming the **OCCUPIED** time period for the weekday setting.

Additional step if indoor remote sensor is connected.



The master thermostat will either average all sensors (system average) or only use one sensor for the system ambient temperature (priority). The default setting is SYSTEM AVERAGE, which means all sensors are averaged to create the system average ambient temperature reading. The NEXT ZONE key can be pressed to change the priority. The system information area of the display shows the priority.

For Example: There is an indoor remote connected and it is named REMOTE 1. If the NEXT ZONE key is pressed until REMOTE 1 is shown, then the REMOTE 1 ambient temperature reading will be used exclusively for that time period. All other sensors will be ignored.

- 4. Use the selection for the weekday **OCCUPIED** time period. Note: If you want the fan to run continuously during this time period, select **ON** with the **FAN** key.
- Press NEXT
- Press NEXT
- 8. Repeat steps 4 through 7 for weekday **UNOCCUPIED** time period.

To customize your 7 day program schedule, follow these steps:

Saturday:

 Repeat steps 4 through 7 for Saturday OCCUPIED time period and for Saturday UNOCCUPIED time period.

Sunday:

 Repeat steps 4 through 7 for Sunday OCCUPIED time period and for Sunday UNOCCUPIED time period.

Monday

- 1. Select **HEAT** or **COOL** using the **SYSTEM** key. You have to program heat and cool each separately
- 2. Press MENU.
- 3. Press SET SCHED.

Note: Monday is displayed and the **OCCUPIED** text is shown. You are now programming the **UNOCCUPIED** time period for the Monday setting.

- 4. Use the or key to make your time selection for the Monday time period. **Note:** If you want the fan to run continuously during this time period, select the **FAN** key.
- Press NEXT
- 6. Use the 4 or $\sqrt{}$ key to make your setpoint selection for the Monday **OCCUPIED** period.
- Press NEXT
- 8. Repeat steps 4 thru 7 for Monday **UNOCCUPIED** time period.

Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

Repeat steps 4 thru 8 for the remaining days of the week.

A Note About Auto Changeover:

If in Auto you have the ability to switch between Auto Heat or Auto Cool by pressing the System key. This can be done once the current mode has reached its set-point. For example: if in Auto Heat, the heat setpoint must be satisfied before the thermostat will allow you to switch to Auto Cool. You can switch out of Auto by holding down the System key. To get back into Auto, you must toggle the System key to Auto.

A Note About Programmable Fan:

The programmable fan feature will run the fan continuously during any time period it is programmed to be on. This is the best way to keep the air circulated and to eliminate hot & cold spots in your building.

Specifications

Thermostat

Cooling is adjustable from 0.2°F to 2.0°F

Battery power from 2 AA Alkaline batteries

Frequency 916 MHz

Base Module

Operating ambient ______ 32°F to +150°F (0° to +65°C)
Operating humidity _____ 90% non-condensing maximum