

OWNER'S MANUAL

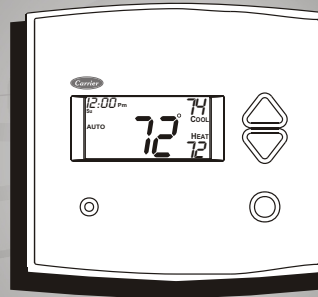
Carrier

COMMERCIAL
THERMOSTAT
P/N 33CS450-01

**7-DAY
PROGRAMMABLE**

**HEAT & HEAT
COOL PUMP**

DIGITAL THERMOSTAT



- 3 Configurable Outputs
- Control up to 3 Heat & 2 Cool Stages
- Adjustable 2nd & 3rd Stage Timers & Deadbands
- Backlit Display & Button Legends
- Aux-Heat Indicator
- Dry Contact Equipped
- Outdoor Sensor Ready with High/Low Readouts for the Day
- Set Point Limiting
- Economizer Control
- Preoccupancy Fan Purge
- Accepts EZ Programmer™
- Remote Averaging
- Programmable Output
- Light Activation Equipped
- Accepts Optional Humidity Module: Controls Humidification, Dehumidification and Reheat
- Accepts Optional IR Remote Control

Accepts the *OPTIONAL* HUMIDITY MODULE

- Use with most Air Conditioning & Heating Systems including: 1 or 2 Stage Electric Cooling & 3 Stage Gas Heating, Heat Pump, Electric or Hydronic Heat.

Carrier Corporation 04/06



CAUTION

Follow the Installation Instructions before proceeding.
Set the thermostat mode to "OFF" prior to changing settings in setup or restoring Factory Defaults.



CAUTION

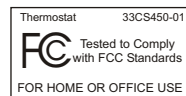
NEVER PUT MORE THAN ONE
JUMPER ON THE SAME MISC
JUMPER BLOCK!

THIS MAY DAMAGE YOUR
THERMOSTAT.



NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.

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.



How to Use This Manual



The Table of Contents divides the thermostat features into sections making it easier to quickly find information.

The first page of each section contains a more detailed list of the contents within that section, such as the example page shown below.

The diagram shows a page layout for Section 14. At the top is a dark header with the text "SECTION 14 Timers and Deadbands" and the Carrier logo. Below the header is a table of contents titled "Section 14 Contents:". The table lists five items with their respective page numbers: "Adjusting the Heat/Cool Differential.....14.2", "Adjusting the Cycles Per Hour.....14.3", "Adjusting the Deadband.....14.4", "Adjusting the Minutes of Run-Time Before the Next Stage.....14.6", and "Selecting 2nd Stage Turn Off Temperature.....14.7". A small black box with the number "14" is positioned to the right of the "Run-Time Before the Next Stage" entry. At the bottom left of the page is the text "Page 14.1".

Header shows section # and title of section

Section contents

Visible section tab on the side of the page

Section and page #

Page 14.1

In addition, this manual also has an Index to help you find any information regarding this thermostat quickly.

Glossary of Terms



Auto-Changeover: A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.

Configurable Output Jumper: Using jumpers on the thermostat you can configure the MISC1, MISC2, and MISC3 terminals to control humidification, dehumidification, 2nd stage cooling, 3rd stage heating, and a programmable output.

Cool Setpoint: The warmest temperature that the space should rise to before cooling is turned on (without regards to deadband).

Deadband: The number of degrees the thermostat will wait, once setpoint has been reached, before energizing heating or cooling.

Dehumidify: To reduce the amount of moisture in the air.

Differential: The forced temperature difference between the *heat setpoint* and the *cool setpoint*.

Heat Setpoint: The coolest temperature that the space should drop to before heating is turned on (without regards to deadband).

Humidify: To increase the amount of moisture in the air.

Icon: The word or symbol that appears on the thermostat display.

Mode: The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).

Non-Programmable Thermostat: A thermostat that does not have the capability of running the *Time Period Programming*.

Programmable Thermostat: A thermostat that has the capability of running the *Time Period Programming*.

Reheat: Running the cooling and 2nd stage strip heaters at the same time in order to *dehumidify* the air without cooling down the room temperature.

Temperature Swing: *Same as Deadband.*

Time Period Programming: A program that allows the thermostat to automatically adjust the *heat setpoint* and/or the *cool setpoint* based on the time of day.

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Carrier

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SECTION 1

Quick Start

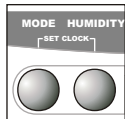
Carrier

1

Section 1 Contents:

- **Setting the Clock and Day.....1.2**
- **Selecting the Heat or Cool
Mode.....1.3**
- **Selecting Your Desired
Temperature.....1.4**
- **Using the Fan Button.....1.4**

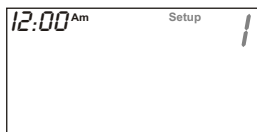
***Note:** Following the instructions in this section will allow you to operate your thermostat using the factory default settings. These settings are depicted in the illustrations throughout this manual.*



Press the **MODE** and **HUMIDITY** buttons at the same time

During Setup & Programming:
Pressing the **UP** or **DOWN** buttons will modify the flashing selection.

Setting the Clock



Setting the Day

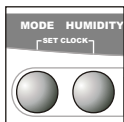


To adjust the Clock or Day use



Buttons.

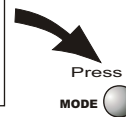
Press the **MODE** and **HUMIDITY** buttons at the same time to return to normal operation.



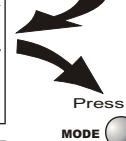
1 Selecting the Heat or Cool Mode

Select Mode by Pressing the MODE Button

Heating Only
The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



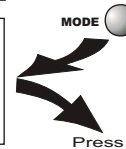
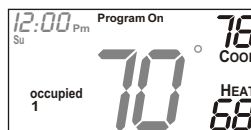
Cooling Only
The **COOL** setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.



Heating or Cooling
AUTO will automatically select heat or cool based on room temperature demand.



Time Schedule for Heating or Cooling
Program On will activate the stored timer operation for the heating and cooling setpoints (occupied or unoccupied periods).



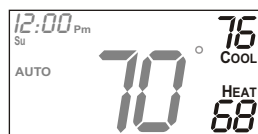
Off
OFF indicates both heating and air conditioning systems are turned off.



Selecting Your Desired Temperature (adjusting the setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN buttons in Auto or Program mode will adjust **both** the heat and cool set temperatures simultaneously.



Adjust the desired set temperature with the



buttons.

HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat or Cool mode will adjust only the heat or cool set temperature.



Adjust the desired set temperature with the



buttons.

Using the Fan Button



Press
FAN 

Fan On indicates constant fan operation. If Fan On is selected the fan will run continuously at all times, except in Off, **and** will only run if there is a heating or cooling demand in Unoccupied periods. Pressing the FAN button toggles this feature on or off.

SECTION 2
Getting to Know Your Thermostat



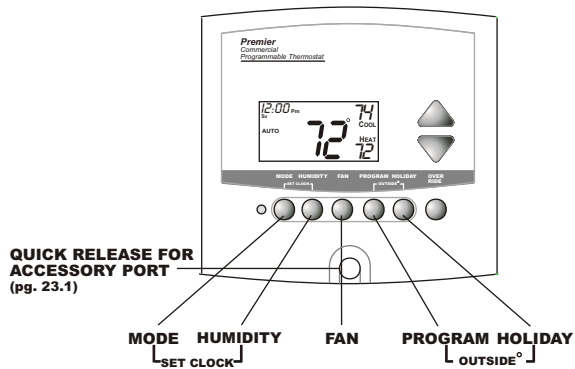
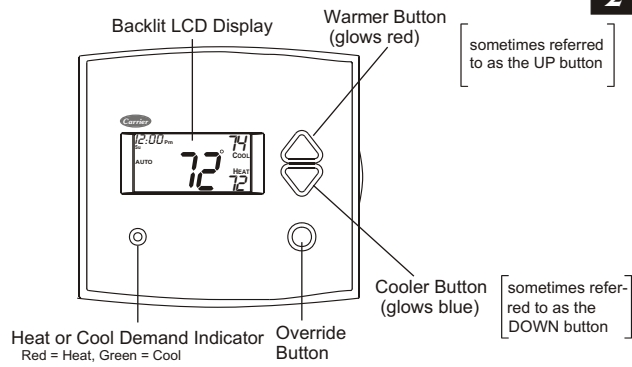
2

Section 2 Contents:

- *Front Panel Buttons*.....2.2
- *Display Features*.....2.3

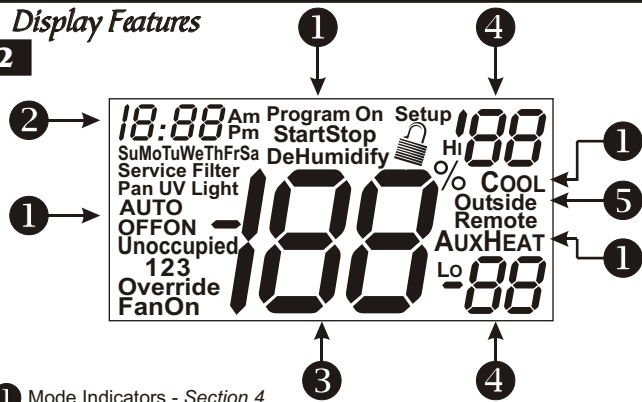
Front Panel

2



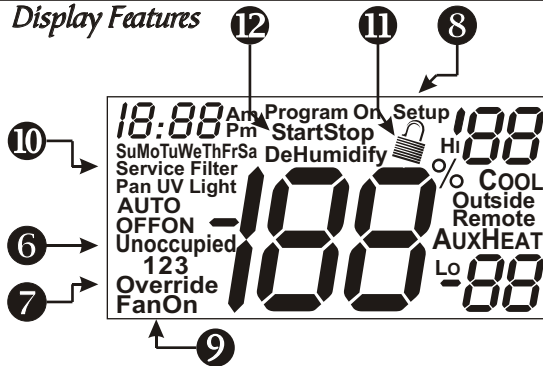
Display Features

2



- 1** Mode Indicators - Section 4
Selects the operational mode of the equipment.
HEAT - Indicates the heating mode.
COOL - Indicates the air conditioning mode.
AUTO - Indicates the system will automatically changeover between heat and cool modes as the temperature varies.
OFF - Indicates heating and cooling is turned off.
PROGRAM ON - Indicates the time period program is enabled to run.
- 2** Clock with Day of the Week - Section 3
Indicates the current time and day. This clock is also used to program the time period schedules.
- 3** Room Temperature Display - Section 5
Indicates the current room temperature and displays the outside temperature when selected.
- 4** Desired Set Temperature - Section 4/5
Indicates desired room temperature(s). Also displays the highest and lowest outside temperatures for the day.
- 5** Outside icon - Section 5
Indicates the temperature displayed is from the optional outside sensor.

Display Features

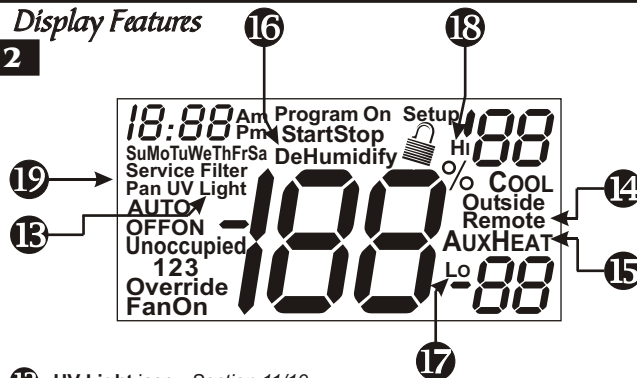


2

- 6 Occupied & Unoccupied icons - Section 6**
Indicates the program number: Occupied 1,2,3, or Unoccupied.
- 7 Override icon - Section 6**
Indicates the program is currently being overridden for up to 4 hours.
- 8 Setup icon - Sections 7-20**
Indicates the thermostat is in the setup mode.
- 9 Fan On icon - Section 7**
Indicates constant, continuous fan operation. When **Fan On** is not lit - indicates the fan will only operate when necessary to heat or to cool.
- 10 Service Filter icon - Section 19**
Appears when the filter should be serviced under normal conditions. Adjustable from 0 - 1950 hours of blower operation.
- 11** icon - Section 8
Indicates keypad has been locked.
- 12 StartStop icon - Section 6**
Appears when programming occupied time periods.

Display Features

2



- 13** **UV Light icon** - Section 11/19
Appears when the UV bulb should be serviced under normal conditions. Adjustable from 0 - 1950 days of operation.
- 14** **Remote icon** - Page 22.4
Indicates the remote sensor reading of the thermostat is being viewed.
- 15** **AuxHeat icon** - Pages 10.5 & 13.4
Indicates 2nd stage electric strip heat is being used when the thermostat is programmed for Heat Pump operation. Only the **Aux** icon will appear during Cool to Dehumidify to indicate Reheat operation.
- 16** **Humidify/DeHumidify icon** - Sections 9-10
Indicates the system is currently humidifying/dehumidifying the air.
- 17** **Lo icon** - Section 5
Indicates the lowest recorded outside temperature for the day.
- 18** **Hi icon** - Section 5
Indicates the highest recorded outside temperature for the day.
- 19** **Service Pan icon** - Section 16
Indicates that a sensor (accessory) has detected the condensate drain pan is full and the compressor (Y1) has been locked out.

Page 2.5

SECTION 3
Setting the Clock and Day

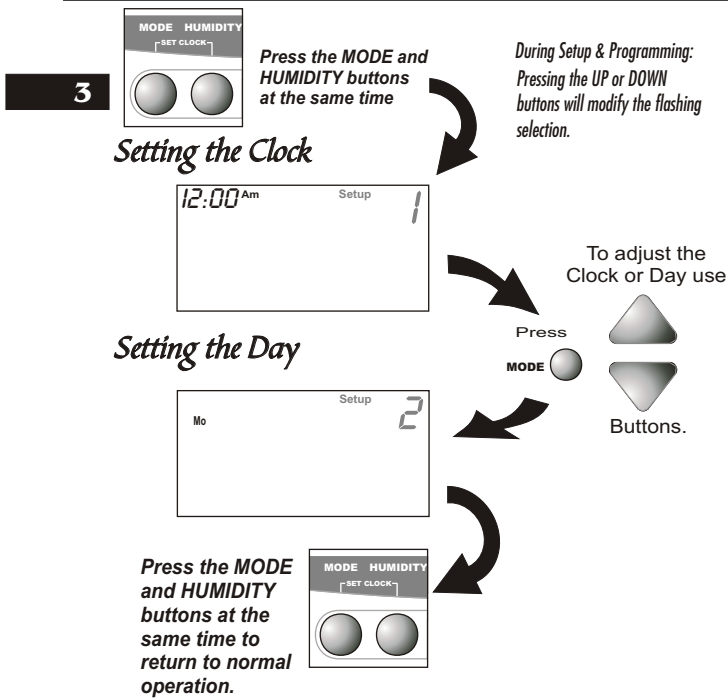


3

Section 3 Contents:

- *Setting the Clock*.....3.2
- *Setting the Day*.....3.2

Note: *During setup & programming pressing the UP or DOWN buttons will modify the flashing selection.*



SECTION 4
Basic Operation



4

Section 4 Contents:

- *Programming for Auto or
Program Operation.....4.2*
- *Selecting the Proper
Operating Mode.....4.3*
- *Selecting Your Desired
Temperature.....4.7*

Note: *During setup & programming pressing the UP or DOWN buttons will modify the flashing selection.*

Programmable or Non-Programmable Thermostat

4 When the very simplest operation is desired, this thermostat may be configured to be non-programmable, with or without Auto-Changeover. Follow the step below.

If 'NO' is selected, the thermostat will lockout the Program On screen; only the Off, Heat, Cool, and Auto screens may be accessed by pressing the MODE button.

Select 'YES' if you would like your thermostat to be **programmable**, then the Program mode will be accessible through the use of the MODE button.

MODE

PROGRAM

YES

NO

Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

YES Program On Setup

Press PROGRAM

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Manual or Auto-Changeover Thermostat

When the very simplest operation is desired, this thermostat may be configured to be a manual heat and cool thermostat, with or without time period programmability. Follow the step below.

4

The thermostat may be programmed to function as a Heat Only or Cool Only thermostat by selecting 'NO' in the setup screen below. This will lockout the Auto-Changeover screen and only allow the Off, Heat, Cool, and Program On screens to be accessed.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM

MODE Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

YES Select Yes if you would like the thermostat to be Auto-Changeover or No for a Heat Only and Cool Only Thermostat.



Select Yes if you would like the thermostat to be Auto-Changeover or No for a Heat Only and Cool Only Thermostat.

NO



Press **PROGRAM**

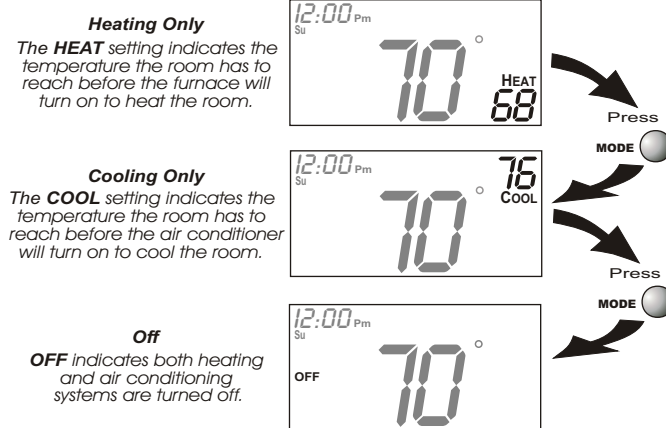
Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Operating Mode when the Thermostat is Configured to be:

4

NON-PROGRAMMABLE WITH MANUAL-CHANGEOVER - If the thermostat is configured to be a non-programmable thermostat with Manual-Changeover, the following screens will be available by pressing the MODE button.

Select the Mode by Pressing the MODE Button



Operating Mode when the Thermostat is Configured to be:

NON-PROGRAMMABLE WITH AUTO-CHANGEOVER - If the thermostat is configured to be a non-programmable thermostat with Auto-Changeover, the following screens will be available by pressing the MODE button

Select the Mode by Pressing the MODE Button

Heating Only
The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



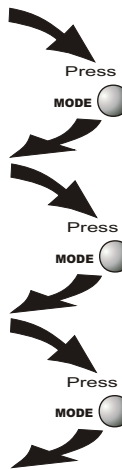
Cooling Only
The **COOL** setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.



Heating or Cooling
AUTO will automatically select heat or cool based on room temperature demand.



Off
OFF indicates both heating and air conditioning systems are turned off.



Operating Mode when the Thermostat is Configured to be:

PROGRAMMABLE WITH MANUAL-CHANGEOVER - If the thermostat is configured to be a programmable thermostat with Manual-Changeover, the following screens will be available by pressing the MODE button.

4

Select the Mode by Pressing the MODE Button

Heating Only

The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



Press

MODE

Cooling Only

The **COOL** setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.

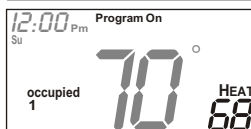


Press

MODE

Time Schedule for Heating Only

The **HEAT Program On** setting will activate the time period program for the heating setpoint ONLY (occupied or unoccupied periods).

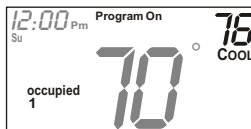


Press

MODE

Time Schedule for Cooling Only

The **COOL Program On** setting will activate the time period program for the cooling setpoint ONLY (occupied or unoccupied periods).



Press

MODE

Off

OFF indicates both heating and air conditioning systems are turned off.



Press

MODE

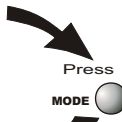
Operating Mode when the Thermostat is Configured to be:

PROGRAMMABLE WITH AUTO-CHANGEOVER - If the thermostat is configured to be a programmable thermostat with Auto-Changeover, the following screens will be available by pressing the MODE button.

4

Select the Mode by Pressing the MODE Button

Heating Only
The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



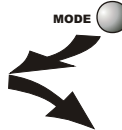
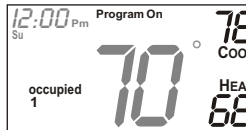
Cooling Only
The **COOL** setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.



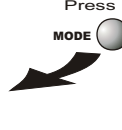
Heating or Cooling
AUTO will automatically select heat or cool based on room temperature demand.



Time Schedule for Heating or Cooling
Program On will activate the time period program for the heating and cooling setpoints. (occupied or unoccupied periods)



Off
OFF indicates both heating and air conditioning systems are turned off.



Selecting Your Desired Temperature (adjusting setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN buttons in Auto **or** Program modes will adjust **both** the heat and cool set temperatures simultaneously. For more information on this see page 13.2.

4



Adjust the desired set temperature with the



buttons.

HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat **or** Cool modes will adjust only the heat **or** cool set temperature.



Adjust the desired set temperature with the



buttons.

SECTION 5
Viewing the Temperature and Humidity Sensors



5

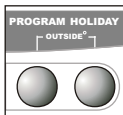
Section 5 Contents:

- *Viewing the Outside
Temperature.....5.2*
- *Viewing the Indoor
Humidity.....5.3*

Viewing the Outside Temperature

Requires an outside sensor (optional accessory) to be installed (see page 15.2 for wiring instructions). To read the temperature from the outside sensor, press the PROGRAM and HOLIDAY buttons. The display will then show the current outside temperature along with the

5 highest and lowest temperatures for the day.



Press the **PROGRAM** button. While holding **PROGRAM**, press the **HOLIDAY** button to view the Outside temperature.

The highest and lowest temperatures for the day will be displayed along with the current outside temperature. This reading is from the sensor connected to RS2.

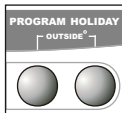


High temperature for the day.

Current outside temperature.

Low temperature for the day.

Press the **PROGRAM** button. While holding **PROGRAM**, press the **HOLIDAY** button to leave the Outside temperature screen.



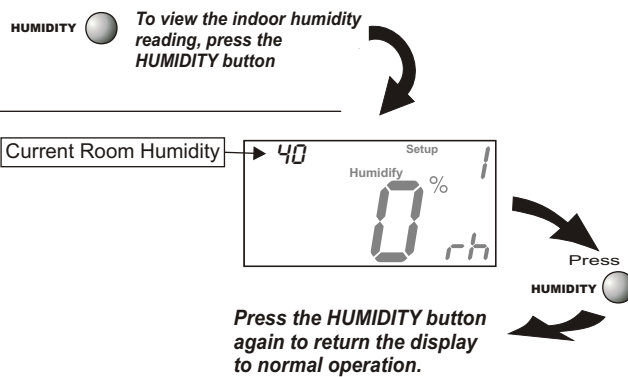
Note: If no sensors are connected 2 dashes [- -] will appear.

Viewing the Indoor Humidity

Requires the Humidity Module (optional accessory) to be installed. To display the current humidity at the thermostat, press the HUMIDITY button. The display will then show the current indoor humidity along with the humidification setpoint (Section 9).

5

Note: The humidity reading will not appear unless the Humidity Module has been installed. If the Humidity Module has not been installed dashes will appear in place of the humidity reading.



NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.

SECTION 6
Programming the Daily Schedule

Carrier

Section 6 Contents:

| | | |
|----------|---|------------|
| 6 | ■ <i>Programming a Daily Schedule.....</i> | 6.2 |
| | ■ <i>Overriding the Daily Schedule.....</i> | 6.6 |

Programming a Daily Schedule

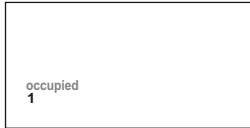
Press
PROGRAM

Press the **PROGRAM** button to enter time period programming.

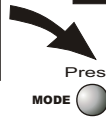
Use the Programming Worksheet on the back cover to help with this section.



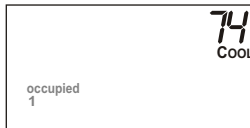
Select the maximum # of occupied periods to be used on any one day. Typically most installations use only Occupied 1. (1, 2 or 3)



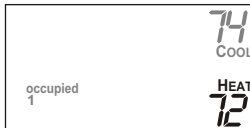
6



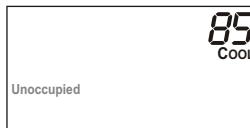
Adjust the cooling setpoint for Occupied 1. (35° - 99° OF)



Adjust the heating setpoint for Occupied 1. (OF, 35° - 99°)



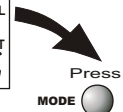
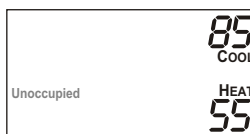
Adjust the cooling setpoint for unoccupied periods. (35° - 99° OF)



Continued



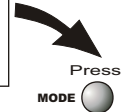
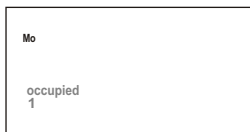
Adjust the heating set-point for Unoccupied periods.
(OF, 35°-99°)



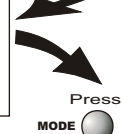
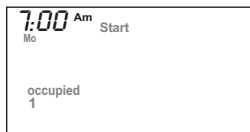
6



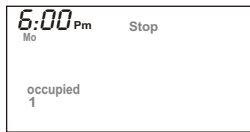
Select the day for Occupied 1.
(Mo - Su)



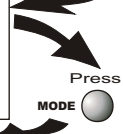
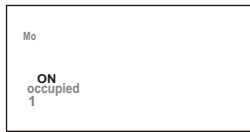
Adjust the start time for Occupied 1.



Adjust the stop time for Occupied 1.

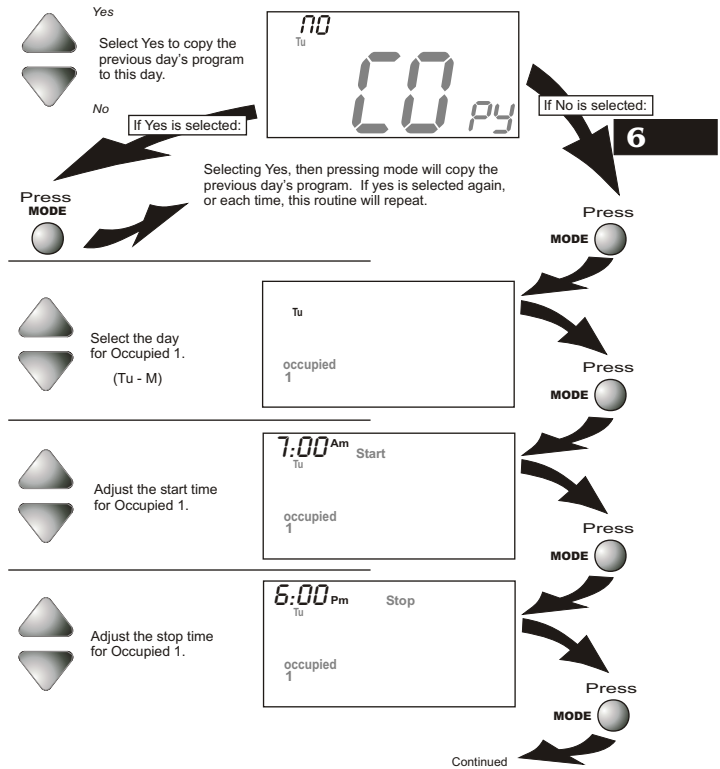


On
Select Occupied 1 to run on this day (On), or not to run on this day (Off).
Off



Continued

The copy command becomes available after the maximum # of occupied periods are programmed in a day. This example uses only one occupied period.



Carrier

On

Off

Tu

ON
occupied
1

6

Yes

No

If Yes is selected:

NO

We

00 *Py*

If No is selected:

Press
MODE

Press
MODE

Selecting Yes, then pressing mode will copy the previous day's program. If yes is selected each time, this routine will repeat.

If **No** is selected, as in previous steps, flashing prompts will appear to input start and stop times for Occupied 1. If more than one occupied period was selected in the first programming step (page 6.2), then the cool and heat setpoints, and start and stop times for each additional occupied period will be prompted.

After programming for all seven days is complete, press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

PROGRAMMING TIPS

- * If only the Occupied 1 period is selected in the first programming step (page 6.2), Occupied 2 & 3 programming steps are skipped. Furthermore, if Occupied 2 is selected, Occupied 3 programming steps are skipped.
- * Heat & Cool setpoints for Occupied 1 are the same for every day of the week. If desired, Heat & Cool setpoints for Occupied 2 & 3 can be adjusted differently for each day of the week.
- * **If the start time is set later in the day than the stop time**, the program will run from the start time to midnight and from midnight to the stop time on the same day. *For example: 9pm start, 8am stop, on Monday. In this example the program will run from 12am Monday to 8am Monday and again from 9pm Monday to 12am Tuesday.*
- * **Unoccupied Operation:** The unoccupied settings take effect at all times when: (1) the program is on and (2) the current time is outside a preset occupied period. For this reason start and stop times are not necessary for unoccupied time periods.
- * If the **same** start and stop times are programmed for an occupied period, then it will run 24 hours.
- * If one occupied period starts and stops within another occupied period the lower occupied # has priority. *For example: If Occupied 3 is programmed to be on 24 hours, and Occupied 2 is programmed to run that day, then the Occupied 2 setting will take over for Occupied 3 between Occupied 2 start and stop times.*

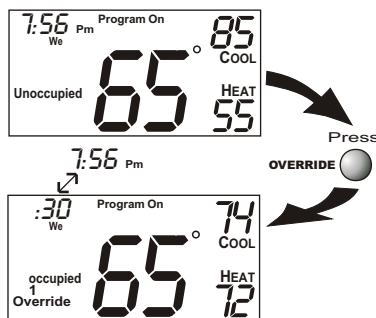
Overriding the Daily Schedule

The OVERRIDE button may be used to interrupt the normal time schedule programming of the thermostat. Override may only be used when the thermostat is running the time schedule, in Program On mode.

Unoccupied Operation - During programmed, unoccupied periods, pressing the OVERRIDE button will temporarily force the thermostat into Occupied 1 comfort settings for 30 minutes. The remaining Override time will alternate with the clock (refer to the second display below). The Override timer can be set up to a maximum of four (4:00) hours, in increments of 30 minutes. If the timer has been set for the maximum time, the next press of the OVERRIDE button will reset the timer, returning the thermostat to the correct time period program for the day.

6

Occupied Operation - During programmed, occupied periods, a press of the OVERRIDE button will force the thermostat into an unoccupied period for the remainder of the day. During this forced unoccupied period the OVERRIDE button will operate as described above.



Page 6.6

SECTION 7
Programming the Fan Operation

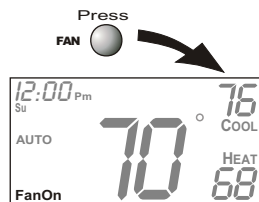


Section 7 Contents:

- *Using the Fan Button.....7.2*
- **7** ■ *Smart Fan Operation.....7.2*
- *Setting the Fan-Off Time
Delay.....7.3*
- *Fan Purge Operation.....7.4*

Using the Fan Button

When the fan is set for automatic operation it will energize any time there is a call for heating or cooling, otherwise the fan will remain off. Pressing the FAN button will energize the fan and display the **FanOn** icon on the thermostat display. To operate the fan in the automatic mode, press the FAN button again and the FanOn icon will disappear.



7

Fan On indicates constant fan operation. If Fan On is selected the fan will run continuously at all times, except in Off, **and** will only run if there is a heating or cooling demand in Unoccupied periods. Pressing the FAN button toggles this feature on or off.

Smart Fan Operation

This feature allows the fan to run continuously during Occupied 1, 2 or 3 and automatically de-energize during Unoccupied, except when necessary to heat or cool. To use this feature, place the thermostat in the Program On mode. Next, press the FAN button to display the **FanOn** icon (see below).



Page 7.2

Setting the Fan-Off Time Delay

To increase cooling efficiency of your unit, the thermostat may be programmed to continue running the fan after a call for cooling has been satisfied. This delay may be set for 30, 60, or 90 seconds. If the Fan Off Delay is set for zero seconds, the fan will not energize after a call for cooling has been satisfied.

7

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*



Set the Fan Off Delay to 0, 30, 60, or 90 seconds.



PROGRAM

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Fan Purge Operation

When this feature is activated, the fan will turn on during an unoccupied period at a preset amount of time prior to Occupied 1. This preoccupancy fan purge timer may be set from zero to three hours, in 15 minute increments. Zero means this feature is turned off.

7

MODE *Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.*

PROGRAM

MODE *Press the MODE button repeatedly until this setup screen appears.*

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

Adjust the preoccupancy fan purge timer.
0 - 3 hours.
0:00 = off

Press

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 8
Thermostat Display Options



Section 8 Contents:

- *Turning On/Off the Backlight.....8.2*
- 8** ■ *Programming the Thermostat to Display Temperature in Fahrenheit or Celsius.....8.2*
- *Locking/Unlocking the Keypad.....8.3*
- *Programming a Security Level.....8.4*

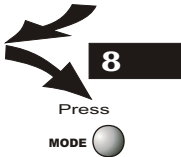
Turning On/Off the Backlight

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

- Select backlight operation:
AUTO - Light from 6pm to 6am nightly.
- ON** - Light continuously.
- OFF** - Light for 8 seconds after a button press.




Programming the Thermostat to Display Temperature in Fahrenheit or Celsius

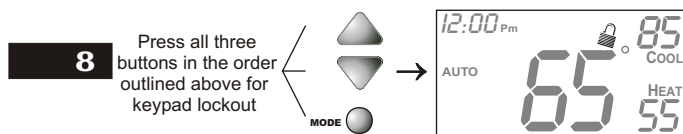
- C**
Select thermostat operation in degrees Fahrenheit or Celsius.
- F**




Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Locking/Unlocking the Keypad

To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The  icon will appear on the display, then release the buttons.



To **unlock** the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The  icon will disappear from the display, then release the buttons.

Programming a Security Level

When a security level has been programmed, the thermostat will allow limited adjustment to the setpoints (*steps # 8 and 9*). In security levels 2 and 3, the thermostat is forced into the Program On mode. To disable the security feature, set the value in step #7 to 0; this will cause steps # 8 and 9 not to appear.

- MODE** **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**
 - PROGRAM** **Press the MODE button repeatedly until this setup screen appears.**
- Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.*

8

Select the security level:
 0=No security in effect
 1=Setpoint range limited
 2=1+ program on all times
 3=2 + prohibits setpoint changes

Step #8 appears only if step #7 is not 0.

Adjust the maximum allowable heat setpoint when security is in effect.
 (35° - 99°)

Step #9 appears only if step #7 is not 0.

Adjust the minimum allowable cool setpoint when security is in effect.
 (35° - 99°)

Press **MODE**

Press **MODE**

Press **MODE**

Press **PROGRAM**

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 9
Humidification



Section 9 Contents:

- *Installing the Humidity Module.....9.2*
- **9** ■ *Setting a Thermostat Jumper for Humidity Operation.....9.3*
- *Adjusting the Humidification Setpoint.....9.4*

NOTE: *The humidification functions described in this section will only be available if a Humidity Module has been properly installed.*

Disclaimer:

The manufacturer of this thermostat cannot be liable for misinstallation, improper connection or improper programming of the humidity functions of this thermostat that may result in water damage or mold growth.

Additionally, the manufacturer of this thermostat is not responsible for the fitness of the humidifier and/or installation of said humidifier connected to this thermostat. Furthermore, the maintenance of the humidifier components, including but not limited to, the filters and pads are not the responsibility of the thermostat manufacturer.

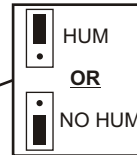
The Humidifier Service icon is only a suggestive reminder and should not take the place of the humidifier manufacturer's required maintenance requirements and schedule.

Installing the Humidity Module

To install the Humidity Module the thermostat must be detached from the back plate. Plug the Humidity Module into the Humidity Module connector as shown in Figure 2 below. Follow the detailed instructions included with the Humidity Module accessory. Once the Humidity Module has been installed, you must adjust the Humidity jumper setting to HUM as shown in Figure 1 below. This will allow you to access the humidification and dehumidification setup steps.

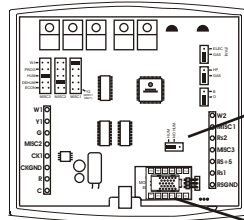
For proper humidity operation, this jumper must be set for HUM.

Figure 1



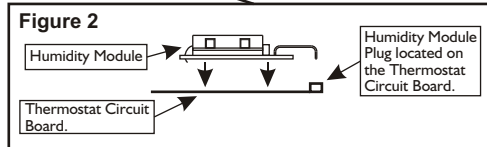
9

Back of 33CS450-01



Install the Humidity Module (see Humidity Module Instruction Sheet for more detailed information).

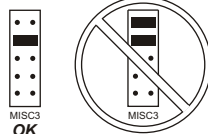
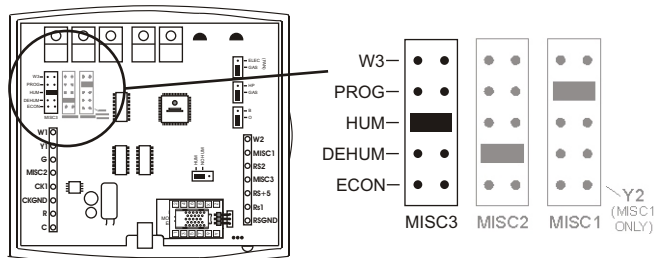
Figure 2



Setting a Thermostat Jumper for Humidity Operation

To operate one of the MISC outputs using humidity-based operation, place the MISC1, MISC2, or MISC3 jumper on the terminal labeled HUM (see diagram below). This will supply 24VAC to the selected MISC terminal based on the humidification programming in the following pages. Only one of the three outputs (MISC1, MISC2, or MISC3) is required to have this jumper. For more information regarding the MISC1, MISC2, and MISC3 outputs, please see section 21.

9 In the diagram below, the MISC3 jumper has been set for HUM (humidify) operation.



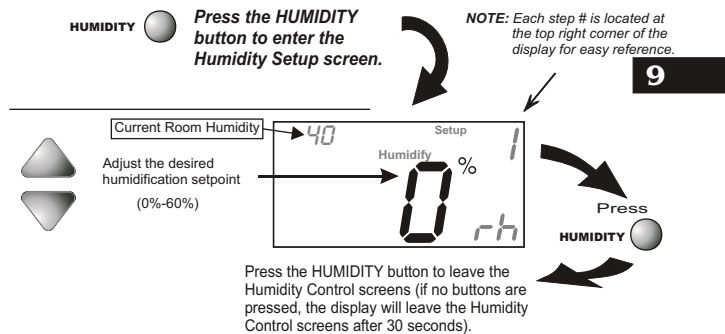
IMPORTANT CAUTION

NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!
THIS MAY DAMAGE THE THERMOSTAT

Adjusting the Humidification Setpoint

If your HVAC unit is equipped with a humidification system and the Humidity Module has been installed, the thermostat will provide power to the appropriate terminal on the backplate of the thermostat when the humidity in the building falls below the setpoint you have chosen. The value for this setpoint ranges from 0% to 60%.

NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.



Humidification Notes: Press the button to set the humidity setpoint to 0% for no humidification operation.

You cannot set the dehumidify setpoint any lower than the humidify setpoint; a 5% differential is forced between the humidify and dehumidify setpoints.

SECTION 10 *Dehumidification*

Carrier

Section 10 Contents:

- *Configuring a Thermostat Output Jumper for Dehumidification Operation.....10.2*
- 10** ▪ *Adjusting the Dehumidification Setpoint.....10.3*
- *Using Your Air Conditioner to Dehumidify.....10.4*
- *Using the Reheat Function.....10.5*
- *Using the DEHUM Terminal.....10.6*

NOTE: The dehumidification functions described in this section will only be available if a Humidity Module has been properly installed. For instructions on installing the Humidity Module please see page 9.2.

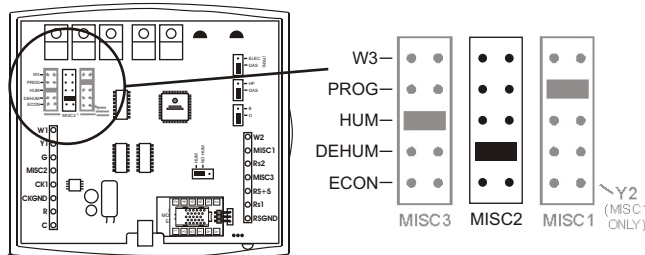
Page 10.1

Setting a Thermostat Jumper for Dehumidification Operation

To control a MISC output for dehumidification, install the Humidity Module and place the Humidity Jumper on HUM (see page 9.2). Then place the MISC1, MISC2, or MISC3 jumper on the terminal labeled DEHUM (see diagram below). This will supply 24VAC to the selected MISC terminal based on the programming in the following pages. Only one of the three outputs (MISC1, MISC2, or MISC3) is required to have a jumper. For more information regarding the MISC1, MISC2, and MISC3 outputs, please see section 21.

In the diagram below, the MISC2 jumper has been set for DEHUM (dehumidification) operation.

10



IMPORTANT CAUTION



NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!
THIS MAY DAMAGE THE THERMOSTAT

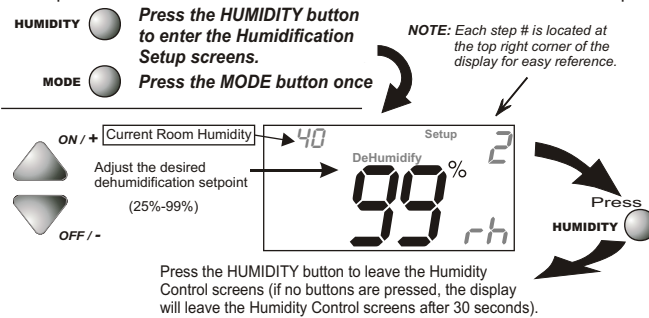
Adjusting the Dehumidification Setpoint

Dehum Terminal: If a MISC terminal is selected for DEHUM operation (see page 10.2), then the thermostat will provide power to this terminal when the humidity in the building is above the setpoint you have chosen. See page 10.6 for detailed programming instructions. To utilize this feature your HVAC unit must be equipped with a DEHUM terminal.

Cool to Dehumidify: If the thermostat is programmed for Cool to Dehumidify operation, then the thermostat will energize the cooling system any time the humidity in the building is above the setpoint you have chosen. The thermostat may also be programmed for Reheat operation if available. See pages 10.4 and 10.5 for detailed programming instructions.

In each case, when the indoor humidity falls below the setpoint you have selected, Cool to Dehumidify and the MISC terminal will be de-energized. The value for this setpoint ranges from 25% to 99%.

10 NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.



Dehumidification Notes: Press the button to set the dehumidification setpoint to 99% for no dehumidification operation. This will lockout Advanced Setup steps 10, 11, and 12 (see pages 10.4 - 10.5).

You cannot set the dehumidify setpoint any lower than the humidify setpoint; a 5% differential is forced between the humidify and dehumidify setpoints.

Using Your Air Conditioner to Dehumidify

If Cool to Dehumidify is on and the Humidity Module is installed, the thermostat has the ability to initiate a cooling cycle for advanced dehumidification operation. When the thermostat detects the humidity percentage is above the setpoint for dehumidification, and heating or cooling is not on, the thermostat will force the compressor to run with the fan, thus reducing moisture in the air. The green LED will blink once every eight seconds to indicate this is taking place. This feature will also allow you to adjust the cooling overshoot of the setpoint, from 0° to 5° (adjustable in step #11). *For Example: If the cooling overshoot is set for 3°F and the cooling setpoint is set for 74°F, then as long as the room temperature reads between 71°F and 74°F this feature will energize the compressor and fan to dehumidify the air.*

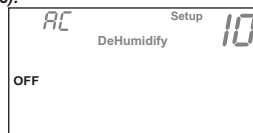
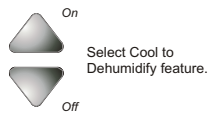
MODE **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**

MODE **Press the MODE button repeatedly until this setup screen appears.**

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

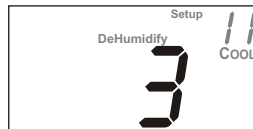
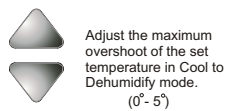
10

Steps 10 and 11 only appear if the Dehumidification setpoint is not 99% (see page 10.3).



Press **MODE**

Step 11 appears only if step 10 is set to "ON"



Press **PROGRAM**

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Dehumidification Notes: The thermostat must be in the Cool, Auto, or Program On mode for the Cool to Dehumidify feature to be available.

Using the Reheat Function

This feature allows the thermostat to turn on Electric Heating (W2) during Cool to Dehumidify to maintain room temperature until the dehumidification setpoint is reached. The cooling cycle will allow for the dehumidification of the air to occur while the Electric Heating will allow for a constant room temperature. If Reheat is enabled the Aux icon will appear on the display during Cool to Dehumidify operation.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

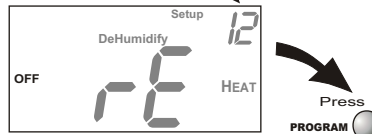
*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

10 **MODE** Press the **MODE** button repeatedly until this setup screen appears.

Step 12 appears only if step 10 is set to "ON" and if the Dehumidification setpoint is not 99% (see page 10.3).

On
If Reheat operation is desired during the dehumidification process select On; otherwise select Off.

Off



Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Dehumidification Notes: Reheat is only available if Cool to Dehumidify has been set to ON in step #10 (see page 10.4).

Using the Dehum Terminal

If you configure a MISC output jumper for DEHUM, it may be programmed to operate in one of two ways:

- 1) **Normally Closed (NC):** The thermostat will de-energize the DEHUM terminal to allow the fan to run in low speed when there is a call for 1st stage cooling and the room humidity is greater than the dehumidification setpoint.
- 2) **Normally Open (NO):** The thermostat will energize the DEHUM terminal to allow the fan to run in low speed when there is a call for 1st stage cooling only and the room humidity is greater than the dehumidification setpoint.

10

MODE *Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.*

PROGRAM

MODE *Press the MODE button repeatedly until this setup screen appears.*

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

NC Normally Closed (NC) = DEHUM deenergized for low speed fan.

NO Normally Open (NO) = DEHUM energized for low speed fan.

Press **PROGRAM**

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Dehumidification Notes: The DEHUM terminal will “release” and allow the fan to operate normally if there is call for 2nd stage cooling or if the call for Cooling and/or Cool to Dehumidify has been satisfied.

SECTION 11
Viewing Equipment Run-Times



Section 11 Contents:

- *Viewing the Heat
Run-Time.....11.2*
- *Viewing the Cool
Run-Time.....11.3*
- 11** ■ *Viewing the Override
Run-Time.....11.4*
- *Viewing the Humidifier
Run-Time..... 11.5*
- *Viewing the UV Light
Run-Time.....11.6*

Viewing the Heat Run-Time - Energy Watch

This display will track the number of hours that your heating system has been operating. Press the FAN button to reset the counter.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM

MODE Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.

Press Counts the number of hours Heat has been running. Press **FAN** to reset the **Energy Watch*** Heat counter. (0 - 1999 hrs.)

FAN

11

Press

PROGRAM

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

*** Energy Watch:** This feature enables you to closely monitor your energy usage by keeping track of the number of hours your heating system has been operating.

Viewing the Cool Run-Time - Energy Watch

This display will track the number of hours that your cooling system has been operating. Press the FAN button to reset the counter.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM

MODE Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.

11 Press Counts the number of hours Cool has been running. Press FAN to reset the **Energy Watch* Cool** counter. (0 - 1999 hrs.)

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

* **Energy Watch:** This feature enables you to closely monitor your energy usage by keeping track of the number of hours your cooling system has been operating.

Viewing the Override Operation Run-Time

This display will track the number of hours that your thermostat has been operating in the Override mode (see page 6.6). Press the FAN button to reset the counter.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*


Press Counts the number of hours Override has been active. Press **FAN** to reset the Override Run-Time counter.




Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.


Viewing the Humidification Run-Time


After your humidification system has been operating for the number of days set in step #17 below, the Service Humidify icon will appear. This counter keeps track of the number of days since the Service Humidify icon was reset.


MODE  Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE  Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

11 Press  Counts the number of days the humidifier has been running. Press **FAN** to reset the Service Humidify counter and remove the icon from the display.





Press  **PROGRAM**

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.


Viewing the UV Light Run-Time


After the UV light has been operating for the number of days set in step #18 below, the Service UV Light icon will appear. This counter keeps track of the number of days since the UV light icon was last reset.

MODE  **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**


PROGRAM  **Press the MODE button repeatedly until this setup screen appears.**

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

Press  Counts the number of days since the UV Light was last reset. Press FAN to reset the Service UV Light counter and remove the icon from the display.

 Setup **18**
 Service UV Light

11

Press  **PROGRAM**

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 12
Electric Heat and Heat Pump Operation



Section 12 Contents:

- *Viewing the Heat Pump and Reversing Valve Jumper Setting.....12.2*
- *Viewing the Electric Heat Jumper Setting.....12.3*
- 12** ■ *Using Emergency Heat.....12.4*

Viewing the Heat Pump and Reversing Valve Jumper Settings

Steps 19 and 20 are 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*



ON = Heat Pump operation
OFF = Gas Electric operation



Indicates that the thermostat jumper is set for an **O** reversing valve (energize in cooling) or a **b** reversing valve (energize in heating).



12

Press

MODE

Press

PROGRAM

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Viewing the Electric Heat Jumper Setting

Placing the jumper on ELEC will cause the thermostat to turn on the fan immediately any time there is a heat demand. Since most gas furnaces control the fan, this feature should be off unless it is necessary for the thermostat to energize the fan with first stage heat.

Step 21 is 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.

MODE *Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.*

PROGRAM

MODE *Press the MODE button repeatedly until this setup screen appears.*

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

12

ON indicates that the thermostat jumper is set for Electric Heat operation, or OFF for Gas/Electric or Heat Pump operation.

Setup 21

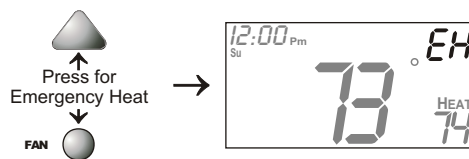
OFF E H

Press

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Using Emergency Heat

ENTER EMERGENCY HEAT: Only available if you have a Heat Pump installed. To initiate the Emergency Heat feature, press the FAN button. While holding the FAN button press the UP button. The Cool setpoint display will read 'EH' (emergency heat).



OPERATION: During Emergency Heat operation the thermostat will turn on the fan and the 2nd stage of heat when there is a demand for heat. Also during Emergency Heat the 1st stage of heating or cooling will be unavailable.

12

EXIT EMERGENCY HEAT: Follow the same steps as entering Emergency Heat by pressing the FAN and UP buttons. During Emergency Heat, only OFF and HEAT modes are available by pressing the MODE button.

SECTION 13
Timers and Deadbands



Section 13 Contents:

- *Adjusting the Heat/Cool Differential.....13.2*
- *Adjusting the Cycles Per Hour.....13.3*
- *Adjusting the Deadband.....13.4*
- *Adjusting the Minutes of Run-Time Before the Next Stage.....13.6*
- *Selecting 2nd Stage Turn Off Temperature.....13.7*

13

Adjusting the Heat/Cool Differential

The Heat and Cool setpoints will not be allowed to come any closer to each other than the value in this step. This minimum difference is enforced during Auto-Changeover operation.

- MODE** Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.
- PROGRAM**
- MODE** Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.



Adjust the minimum **difference** between cooling & heating setpoints.
(0°-6°)



Press

13

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Note: To increase the spread between the heating and cooling setpoints, press the **MODE** button until only the heat setpoint is displayed. Adjust the desired setpoint. Wait two seconds after adjusting the set point so the thermostat can accept the change. Press the **MODE** button until only the cool setpoint is displayed. Adjust the desired setpoint. Wait two seconds after adjusting the set point so the thermostat can accept the change. Press the **MODE** button again to enter the Auto-Changeover mode where both the heat and cool setpoints are displayed.

Page 13.2

Adjusting the Cycles Per Hour

The Cycles Per Hour setting limits the number of times per hour your HVAC unit may energize. For example, at a setting of 6 cycles per hour the HVAC unit will only be allowed to energize once every 10 minutes. The Cycles Per Hour limit may be overridden and reset by pressing the UP or DOWN buttons on the thermostat.

- MODE** **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**
 - PROGRAM** **Press the MODE button repeatedly until this setup screen appears.**
- Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.*

13

Select the cycles per hour limit.
d=cycles per hour limit defeated.
d1=d + defeat 5 min. compressor lockout.
(d1, d, 2 - 6)

Setup

23

6

CY

Press

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Adjusting the Deadband

MULTI-STAGE OPERATION - Controls up to three Heat and two Cool stages.

The **2nd Stage** of heat or cool is turned on when:

- (A) The 1st Stage has been on for the time required (*step #27, page 13.6*). It is adjustable from 0-60 minutes and the default is two minutes.

And

- (B) The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (step #24, next page), plus the 2nd stage deadband (step #25, next page)*. This 2nd stage deadband is adjustable from 0-10 degrees and the default is two degrees.

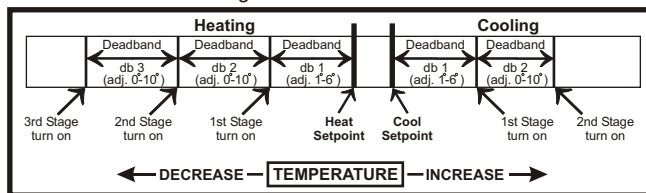
The **3rd Stage** of Heat is turned on when:

- (A) The 2nd stage has been on for the time required (*step #28, page 13.6*). It is adjustable from 0-60 minutes and the default is two minutes.

And

- (B) The temperature from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (step #24, next page), plus the 2nd stage deadband (step #25, next page) plus the 3rd stage deadband (step #26, next page)*. This 3rd stage deadband is adjustable from 0-10 degrees and the default is two degrees.

13



The above figure assumes the minimum on time for the prior stage has been met to allow the next stage to turn on, once the deadbands have been exceeded.

Adjusting the Deadband

For more detailed information, please see the explanation on the previous page.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

Adjust the deadband for the 1st stage.
(1° - 6°)

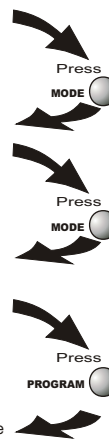
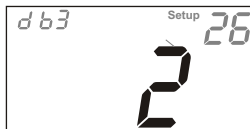


13

Adjust the deadband for the 2nd stage.
(0° - 10°)



Adjust the deadband for the 3rd stage.
(0° - 10°)



Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Adjusting the Minutes of Run-Time Before the Next Stage

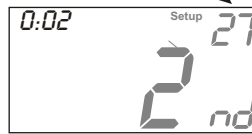
For more detailed information, please see the explanation on page 13.4.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

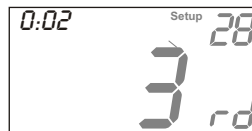
MODE Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

Adjust the amount of time stage 1 must be on before stage 2 turns on.
(0 - 60 min.)



Adjust the amount of time stage 2 must be on before stage 3 turns on.
(0 - 60 min.)



Press **MODE**

13

Press **PROGRAM**

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Selecting 2nd Stage Turn Off Temperature

If ON is selected, the second stage of cooling or heating will remain energized until the thermostat reaches the setpoint on the thermostat display.

If OFF is selected, the second stage of cooling or heating will turn off after reaching the 1st stage deadband (see page 13.4 for more information).

13

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM

MODE Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

On Select On or Off. On - 2nd stage will remain on until setpoint is reached.

Off Off - 2nd stage will turn off after reaching 1st stage deadband.

Setup 29

OFF 2nd

Press

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 14
Using the Programmable Output



Section 14 Contents:

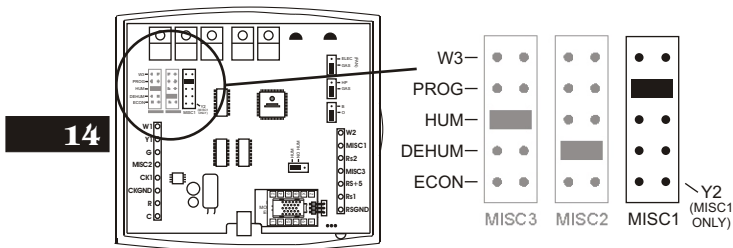
- *Configuring a Thermostat Output Jumper for Programmable Output Operation.....14.2*
- *Time-Based Control of the Programmable Output.....14.3*
- *Temperature-Based Control of the Programmable Output.....14.6*

14

Setting a Thermostat Jumper for Programmable Output Operation

To control one of the MISC outputs using time, temperature, or Internet/phone based operation, place the MISC1, or MISC2, or MISC3 jumper on the terminal labeled PROG (see diagram below). This extra output will supply 24VAC to the selected MISC terminal based on the programming described in the following pages. Only one of the three outputs (MISC1, MISC2, or MISC3) is required to have this jumper. For more information regarding the MISC1, MISC2, and MISC3 outputs, please see section 21.

In the diagram below, the MISC1 jumper has been set for PROG operation.



IMPORTANT CAUTION



NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!
THIS MAY DAMAGE THE THERMOSTAT AND VOID YOUR WARRANTY

Time-Based Control of the Programmable Output

To operate one of the MISC outputs using time-based operation, set Advanced Setup step #30 (below) for Time 18:88. This extra output will supply 24VAC to the selected MISC terminal, which is especially useful for devices that require a start and stop time. Refer to page 14.4 - 14.5 for more details on programming this output.

Possible **TIME** scenarios:

- 1) An exterior lighting system that needs to be energized every day between the hours of 8pm and 1am.
- 2) A sprinkler system that needs to be energized every day between the hours of 2am and 4am.

MODE **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**

PROGRAM

MODE **Press the MODE button repeatedly until this setup screen appears.**

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

14

OFF → Time = 18:88 → Temp = 88° → Aux →

Press the UP button to set the programmable output for time based operation. The digits in the clock area will appear.

18:88

Setup 30

Press

Continued on the next page

Time-Based Control of the Programmable Output

NC Programmable Output Polarity:
 NC = Normally Closed to turn off
 between the start and stop times
 in steps 34 and 35.
 NO = Normally Open to operate
 between the start and stop times
 in steps 34 and 35.



Press
MODE

7-Day
 Select 7-Day or 1-Day
 Programming:
 7-Day = Different program
 for each day.
 1-Day = Same program
 every day.

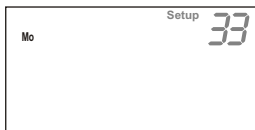


Press
MODE

If Step 32 is set for 1-Day, then Day of the Week and Copy functions do not appear or apply.

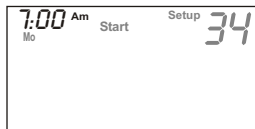
14

Select the day of
 the week



Press
MODE

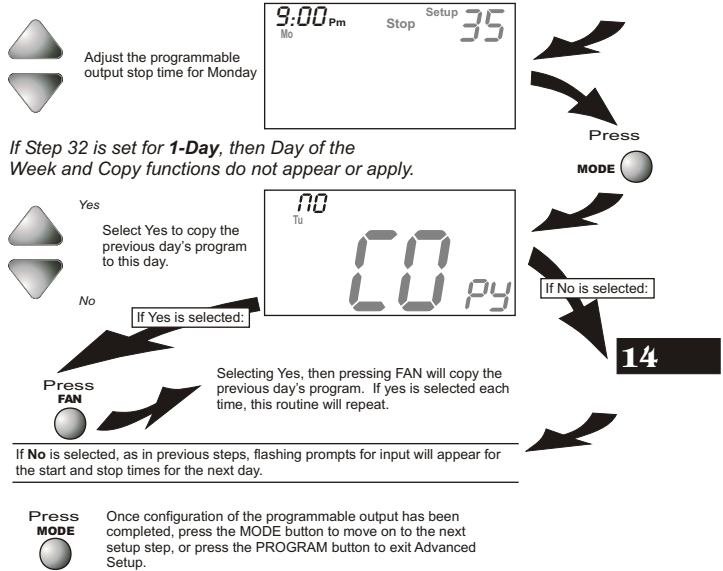
Adjust the program-
 mable output start time
 for Monday.
 (24 Hours)



Press
MODE

Continued on
the next page

Time-Based Control of the Programmable Output



Temperature-Based Control of the Programmable Output

To operate a MISC output using temperature-based operation, program advanced setup step #30 (below) for temperature 88°. This extra output will supply 24VAC to the selected MISC terminal based on the temperature of RS1 and the setpoint in step #36 (below).

Possible **TEMPERATURE** scenario:

- 1) An exhaust fan in the attic of a store that needs to be energized when the attic temperature is above 85 degrees.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

OFF → Time = 18:88 → Temp = 88° → Aux

14

Press the UP button twice to set the programmable output for temperature-based operation. The large temperature digits will appear.

Setup 30

88°

Press

NC
 NO

Programmable Output Polarity:
 NC = Normally Closed to operate when the setpoint is less than the setpoint in step #36.
 NO = Normally Open to operate when the setpoint is equal to or greater than the setpoint in step #36.

Setup 31

NO

Press

Adjust the programmable output setpoint.
(35°-125°)

Setup 36

88°

Press

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Page 14.6

Download from Wwww.Somanuals.com. All Manuals Search And Download.

Internet/Phone Control of the Programmable Output

To operate a MISC output using Internet/phone-based operation, program advanced setup step #30 for Aux (*below*). This terminal is especially useful for devices that can be energized via the Internet. Telephone control may also be available when the thermostat is connected to the Internet.

Possible **REMOTE** scenarios:

- 1) Arm the alarm system in your building after you have left for the day.
- 2) Turn off your sign lights after arriving home.
- 3) Turn on your interior lights while you're closed.

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until this setup screen appears.

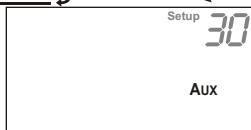
Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

OFF → Time = 13:55 → Temp = 88° → Aux

14



Press the UP button three times to set the programmable output for Aux (web-based operation).



Press **MODE**



NC Programmable Output Polarity:
NC = Normally Closed to operate when programmed to be OFF through the phone or internet.
NO = Normally Open to operate when programmed to be ON through the phone or internet.



Press **PROGRAM**

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Page 14.7

SECTION 15
Programming Remote Sensor Operation



Section 15 Contents:

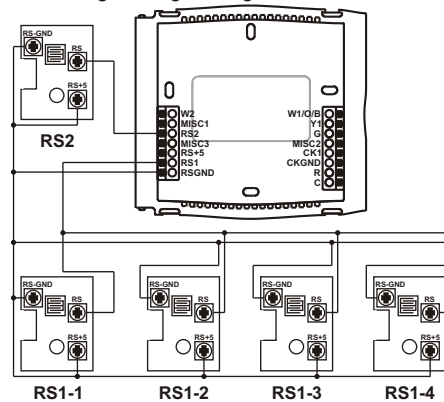
- *Installing the Remote
Sensors.....15.2*
- *Controlling or Reading the
Remote Temperature (RS1)...15.3*
- *Averaging the Remote Sensor
(RS1) with the Thermostat
Sensor.....15.4*

Installing the Remote Sensors

Up to eight wired or wireless remote sensors may be installed on the thermostat (RS1) to control the temperature in other rooms. If more than one sensor is connected to (RS1) the thermostat will average the sensors to determine the displayed temperature reading. One wired or wireless remote sensor may be installed to read the outside temperature (RS2). If a sensor(s) is connected to RS1 and is programmed to control the thermostat, the degree icon on the thermostat will blink once per second to indicate that a remote sensor reading is being displayed. The wired sensor can be connected to the thermostat with **up to 150' of 18 ga., 300' of 20 ga., or 450' of 22 ga. unshielded, thermostat wire**. If multiple sensors are wired to the thermostat, then the total wiring distance of the furthest sensor should be used in determining the appropriate wire gauge. The wired sensor can be connected to the thermostat using a two or three wire installation. If a two wire installation is required, then RS+5 must be connected to RSGND (*see below*).



This wire **MUST** be completely separated from the thermostat or any other control wiring and must **NOT** be in the same conduit as high voltage wiring.



15

See the Remote Sensor accessory for further details.

Page 15.2

Controlling or Reading the Remote Temperature (RS1)

The thermostat may be programmed to only READ the remote sensor, or to CONTROL to the remote sensor. Refer to advanced setup step #37, below.

Read Only Sensor (RS1): If step #37 is set to only READ to the remote sensor, the thermostat will not use this sensor for temperature control. This sensor may be viewed by entering advanced setup (see below) and pressing and holding the MODE button to scroll backwards one step to setup step #48 (see page 22.4).

Control Sensor (RS1): If step #37 is set to CONTROL to the remote sensor, the thermostat will ignore the reading of its internal temperature sensor and only display the temperature reading from the remote sensor. The degree icon on the thermostat will blink once per second to indicate that a remote sensor reading is being displayed.

15

MODE

PROGRAM

MODE

Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

Press the **MODE** button repeatedly until this setup screen appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*

Setup **37**

Remote

Press

Optional Remote Sensor:

YES = Control to Remote Sensor RS1.

NO = Read Only Remote Sensor RS1.

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

Averaging the Remote Sensor (RS1) with the Thermostat Sensor

If step #37 is set to control to the remote sensor, the thermostat will ignore the reading of its internal temperature sensor and only display the temperature reading from the remote sensor. The degree icon on the thermostat will blink once per second to indicate that a remote sensor reading is being displayed.

If step #38 is set to ON (see below), the thermostat will average its internal sensor with the wired temperature sensor connected to RS1. If multiple remote temperature sensors are installed on RS1, they will automatically average together. The temperature displayed will be the average of the thermostat's internal sensor and the remote (RS1) sensor(s).

- MODE** Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.
 - PROGRAM** Press the **MODE** button repeatedly until this setup screen appears.
- Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.*

15

On

Optional Remote Sensor Operation:
ON = Averages thermostat sensor with Remote Sensor 1.

Off

OFF = Does not average thermostat sensor with Remote Sensor 1.

Setup
38

OFF
Remote

Press

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 16
Programming the Dry Contact



Section 16 Contents:

- *Dry Contact Operation..... 16.2*
- *Dry Contact Polarity.....16.2*
- *Dry Contact Programming.....16.3*
- *Random Start Operation.....16.4*

Dry Contact Operation

If the dry contact is going to be used, select YES in step #39. If the dry contact is not going to be used, select NO in step #39 below.

DRY CONTACT POLARITY - The terminals may be set to be Normally Open (NO) or Normally Closed (NC) in step #40. If NO is selected the dry contact will operate when it is forced closed. If NC is selected, the dry contact will operate until it is forced open.

MODE **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**

MODE **Press the MODE button repeatedly until this setup screen appears.**

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

YES
 Set to YES if the dry contact will be used.
 Set to NO if the dry contact will not be used.
NO

YES Setup 39
 dc

Press

16

Step 40 appears only if step 39 is "YES".

NC
 Dry Contact Polarity:
 Normally Closed (NC)
 Normally Open (NO)
NO

NO Setup 40
 dc

Press

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

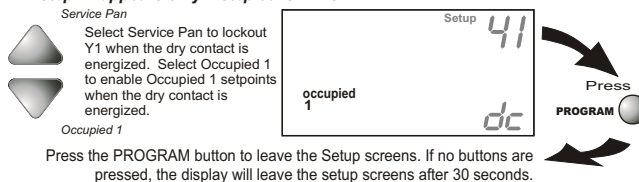
Dry Contact Programming

OCCUPIED 1 OR SERVICE THE CONDENSATE DRAIN PAN - If Occupied 1 is selected in step #41 (below), when the dry contact is energized the thermostat will be forced into Occupied 1 setpoints and the Occupied 1 icon will blink (Section 6). The thermostat must be in Program On mode for this feature to have any effect. If Service Pan is selected, when the dry contact is energized the thermostat will lockout Y1 (compressor) and write Service Pan on the display.

- MODE** Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.
- MODE** Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

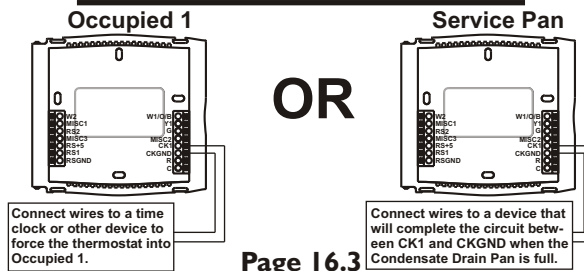
Step 41 appears only if step 39 is "YES".



Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

16

NOTE: If Service Pan is selected and the dry contact was closed at least once, the Service Pan icon will remain on the display to alert the user that a problem has occurred. This icon will be cleared once a button is pressed.



Page 16.3

Random Start Operation

This feature allows a 2 to 30 second delay before energizing the thermostat outputs after any of these events:

Loss of Power to the thermostat: When power to the thermostat is interrupted and then restored, Random Start will lockout the outputs of the thermostat for a random amount of time. This delay helps to keep multiple thermostats from energizing their outputs at the same time after a power outage.

Changing from an Unoccupied time period to an Occupied time period: If the thermostat is running in the Program On mode and the start time for an Occupied period forces the thermostat from Unoccupied to Occupied 1, Random Start will lockout all outputs of the thermostat for a random amount of time. This delay helps to keep multiple thermostats from energizing their outputs at the same time each day.

Closure of the Dry Contact to force Occupied 1 time period: If step #41 (*previous page*) is programmed for Occupied 1, then Random Start will lockout all outputs of the thermostat for a random amount of time when a Dry Contact closure occurs (*depending on step #40*). This delay helps to keep multiple thermostats from energizing their outputs each time the Dry Contact is used.

16

Sensing of a light source by the Light Sensor to force Occupied 1 time period:

If step #42 (*page 17.2*) is programmed YES for Light Activated operation, Random Start will lockout the outputs of the thermostat for a random amount of time when a light source forces the thermostat into Occupied 1. This delay helps to keep multiple thermostats from energizing their outputs each time the lights are turned on.

SECTION 17
Light Activated Operation



Section 17 Contents:

- *Setting up the Thermostat
for Light Activated
Operation.....17.2*
- *Adjusting the Light Sensor.....17.3*

Setting up the Thermostat for Light Activated Operation

A light sensor is provided on the thermostat for light activation. If the thermostat is set up to be light activated, the thermostat will enter Occupied 1 and blink the Occupied 1 icon when a light source is detected. When the thermostat is set up to be light activated, the time period programming for each day should be set to OFF (Section 6). The thermostat must be in Program On mode for light activation to have any effect. Page 17.3 explains how to adjust the light sensitivity for this type of operation.

NOTE: Light activation does not work in Holiday mode (Section 21).

MODE Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.

PROGRAM Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

YES Select YES if the thermostat should be Light Activated.

NO Select NO to allow only Time Period Programming (Section 6).

NO Setup 42

17
Press

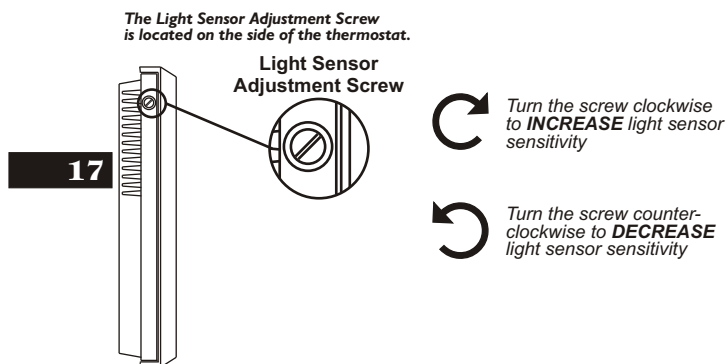
Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

The Light Sensor is located on the top of the thermostat.
33CS450-01

Adjusting the Light Sensor

The light sensor can be adjusted for variable degrees of sensitivity. The sensitivity adjustment screw is located on the side of the thermostat, as illustrated below. Turning the screw clockwise increases the sensitivity of the sensor to light.

To check for correct sensitivity, place the thermostat in the Program On mode. When the lights are on the thermostat should enter Occupied 1 and blink the Occupied 1 icon. If the thermostat does not enter Occupied 1 while the lights are on, use the supplied screw driver to turn the light sensor screw clockwise until the Occupied 1 icon appears on the display. The thermostat should enter an unoccupied period when the lights are off. If the sensor does not enter an unoccupied period when the lights are turned off, use the supplied screw driver to turn the light sensor screw counterclockwise until the Unoccupied icon appears on the display, with the lights off.



Due to varying lighting conditions, light activation may not be suitable for all installations.

Page 17.3


SECTION 18 Energy Save Operation


Carrier


How to Use the Energy Save Feature

If the thermostat is configured to be programmable (Section 4), and Energy Save has been selected in step #43 (below), the room will attempt to reach the selected comfort temperature at the exact time programmed into the thermostat. Energy Save, or more commonly known as Smart Recovery, only works when the thermostat enters Occupied 1 from Unoccupied. For example, if the Unoccupied program is set for 6pm at 55°F heating and 85°F cooling, and the Occupied 1 program is set for 8am at 72°F heating and 75°F cooling, the thermostat will turn the system on before 8am in an effort to bring the temperature to its correct setting at exactly 8am.


The P374-2900 learns from experience, so please allow 4-8 days after a program change or after initial installation to give Energy Save time to adjust to local weather, the construction of your business, and your heating and cooling system.


MODE  Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.


PROGRAM 

MODE  Press the **MODE** button repeatedly until this setup screen appears.

Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.

 On
Select Energy Save on or off.
Off



18
Press **PROGRAM** 

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

SECTION 19
Programming Run-Time Alerts

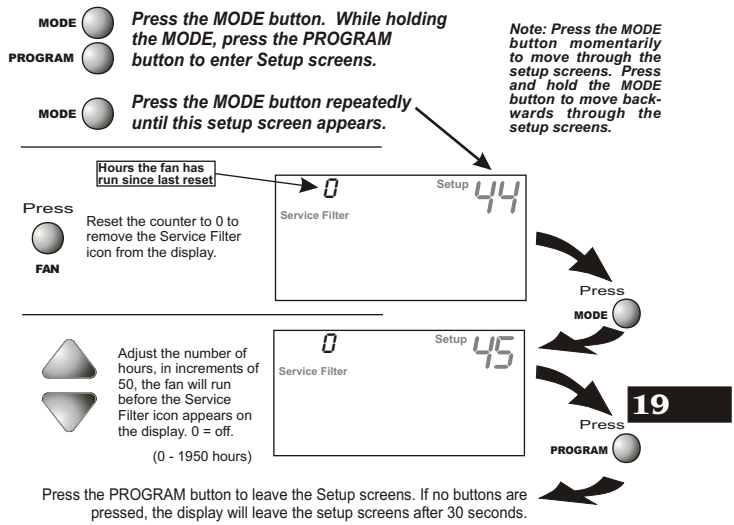


Section 19 Contents:

- *Setting and Resetting the Service Filter (Fan Run-Time) Alerts.....19.2*
- *Setting and Resetting the UV Light Run-Time Alerts.....19.3*
- *Setting and Resetting the Humidify Run-Time Alerts.....19.4*

How to Set and Reset the Service Filter (Fan Run-Time) Alert

This counter keeps track of the number of hours of fan run-time whether the fan is energized in the Heating or Cooling modes, or in stand alone fan operation. The Service Filter icon will appear after the preset number of hours of fan run-time in step #45 (below) has been achieved. Setting this counter to zero in step #45 will prevent the Service Filter icon from ever appearing.



How to Set and Reset the UV Light Run-Time Alert

This counter keeps track of the number of days since the UV Light counter has been reset. The UV Light icon will appear after the number of days has been achieved, as shown in step #46 (below). Setting the counter to zero in Step #46 will prevent the Service UV Light icon from ever appearing.

- MODE** **Press the MODE button. While holding the MODE, press the PROGRAM button to enter Setup screens.**
 - PROGRAM**
 - MODE** **Press the MODE button repeatedly until this setup screen appears.**
- Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.*

Days since the UV Light icon has been reset → 0

Setup 18

Service UV Light

Press **FAN** Reset the counter to 0 to remove the Service UV Light icon from the display.

- MODE** **Press the MODE button repeatedly until this setup screen appears.**

19

Adjust the number of days in increments of 10 before the UV Light icon appears on the display. 0 = off.
(0 - 1990 days)

Setup 46

Service UV Light

Press **PROGRAM**

Press the PROGRAM button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

How to Set and Reset the Humidifier Run-Time Alert

This counter keeps track of the number of days since the Service Humidify icon was last reset; this icon will appear after the number of days set in step #47 (below) has elapsed. Setting this counter to zero in step #47 will prevent the Service Humidify icon from ever appearing.

- MODE** Press the **MODE** button. While holding the **MODE**, press the **PROGRAM** button to enter Setup screens.
 - PROGRAM** Press the **MODE** button repeatedly until this setup screen appears.
- Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move backwards through the setup screens.*

Days since the last reset of the Service Humidify counter.

Press Reset the counter to 0 to remove the Service Humidify icon from the display.

MODE Press the **MODE** button repeatedly until this setup screen appears.

Adjust the number of days in increments of 10 before the Service Humidify icon appears. 0 = Off (0 - 1990 days)

Press **19**

Press the **PROGRAM** button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

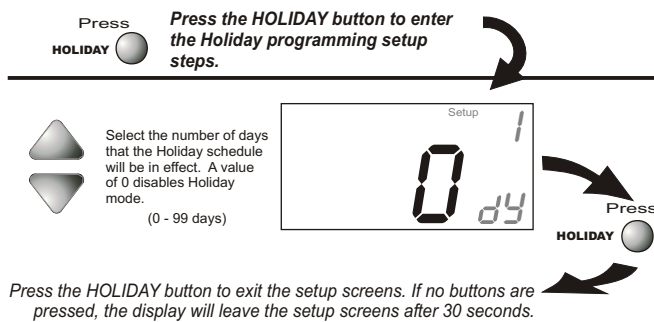


The humidifier run-time alert does not take the place of any humidifier manufacturer's recommended maintenance plan; it only serves as a helpful reminder.

SECTION 20 Programming Holiday Mode

Carrier

When the thermostat is programmed for a Holiday mode, it will take effect at 12:00 am of the next day. *In order for the Holiday mode to take effect the thermostat must be in the Program On mode.* The thermostat will control to the Unoccupied cooling and heating setpoints set in Section 6, pages 6.2 and 6.3. Holiday setpoints will be enforced for the number of days specified in step #1 (0 - 99 days).



20

You cannot set the Heat setpoint any higher than the Cool setpoint minus the deadband setting in Advanced Setup step #22 on page 13.2.

Page 20.1

Programming Holiday Mode (continued)

HOLIDAY DISPLAY - When the thermostat is placed into the Holiday mode, the thermostat will display the screen shown below.



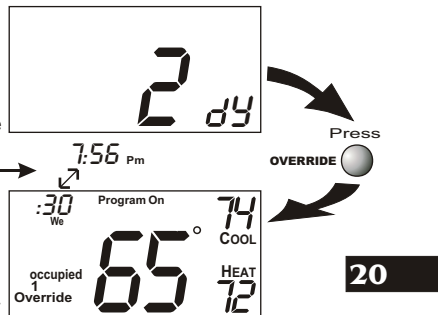
To return the thermostat to normal operation from Holiday mode, press the HOLIDAY button and adjust the number of days in step #1 to zero (see previous page).

Press the HOLIDAY button to return to normal operation.

Overriding the Holiday Mode

Pressing the OVERRIDE button during Holiday Mode will temporarily force the thermostat into Occupied 1 comfort settings for 30 min. The remaining Override time will alternate with the clock display.

The Override timer can be set up to a maximum of four (4:00) hours, in increments of 30 minutes. If the timer has been set for the maximum time, the next press of the OVERRIDE button will reset the timer, returning the thermostat to the correct time period program for the day.



SECTION 21
Configuring the MISC Outputs

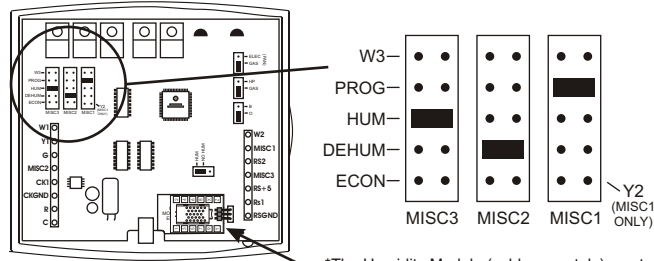
Carrier

Section 21 Contents:

- *Configuring the Jumpers.....21.2*
- *Explanation of Jumper
Settings.....21.3*

Configuring the Jumpers

For additional flexibility, your thermostat has three configurable outputs. These outputs are designed to have different functions depending on how the jumpers are set (*below*). Each output, labeled MISC1, MISC2, and MISC3 may be set for one of the five choices available. In the diagram below, the MISC3 jumper has been set for HUM* (humidification) operation, the MISC2 jumper has been set for DEHUM* (dehumidification) operation, and the MISC1 jumper has been set for PROG (programmable) operation.



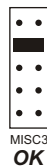
*The Humidity Module (sold separately) must be installed to operate a humidification and/or dehumidification system.



CAUTION

NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!

DOING SO MAY DAMAGE YOUR THERMOSTAT.



Explanation of Jumper Settings

W3 JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to W3, the corresponding MISC screw terminal on the backplate will control a third stage of heat.

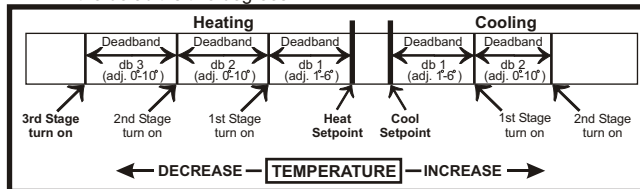
W3 MULTI-STAGE OPERATION EXPLAINED - PAGE 13.4

The 3rd Stage of Heat is turned on when:

(A) The 1st and 2nd stages have been on for the time required (steps 27 and 28, page 13.6). It is adjustable from 0-60 minutes and the default is two minutes.

And

(B) The temperature from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #24, 13.5), plus the 2nd stage deadband (step #25, 13.5) plus the 3rd stage deadband (step #26, 13.5). This 3rd stage deadband is adjustable from 0-10 degrees and the default is two degrees.



PROG JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to PROG, the corresponding MISC screw terminal on the backplate will control a pilot relay or other accessory.

PROGRAMMABLE OUTPUT - SECTION 14

This jumper setting allows the MISC outputs to control a pilot relay by time, temperature, or a signal from the Internet/Phone. The following are three possible scenarios:

21

By **Time**: A device that requires a start and stop time. For example, an exterior lighting system that needed to be energized every day between the hours of 8pm and 1am.

By **Temperature**: An exhaust fan that needs to energize whenever the temperature from RS1 rises above 90 degrees F.

By **Remote**: Remotely arming a security system through the web or phone.

Explanation of Jumper Settings (continued)

HUM JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to HUM, the corresponding MISC screw terminal on the backplate will control a humidification system.

HUMIDIFICATION OPERATION - SECTION 9

If your HVAC unit is equipped with a humidification system and the Humidity Module (sold separately) has been installed, the thermostat will provide power to the MISC1, MISC2, or MISC3 terminal of the thermostat when the humidity in the home falls below the humidity setpoint you have chosen. The value for this setpoint ranges from 0% to 60%. If no humidity is desired or if a humidification system has not been installed, set the value to 0%.

DEHUM JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to DEHUM, the corresponding MISC screw terminal on the backplate will be connected to the dehumidification terminal of a furnace board.
NOTE: *Not all furnaces have a dehumidification terminal.*

DEHUMIDIFICATION OPERATION - SECTION 10

If your HVAC unit is equipped with a dehumidification system the thermostat will operate in one of two ways.

- 1) **Normally Closed (NC):** The thermostat will **de-energize** the MISC1, MISC2, or MISC3 terminal of the thermostat (this MISC terminal is connected to the DEHUM terminal on your furnace) to allow the fan to run in low speed when the humidity in the building is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.
- 2) **Normally Open (NO):** The thermostat will **energize** the MISC1, MISC2, or MISC3 terminal of the thermostat (this MISC terminal is connected to the DEHUM terminal on your furnace) to allow the fan to run in low speed when the humidity in the building is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.

Explanation of Jumper Settings (continued)

ECON JUMPER SETTING

If the jumper for MISC2 or MISC3 is set to ECON, the corresponding MISC screw terminal on the backplate will be connected to an economizer.

ECONOMIZER OPERATION - If your HVAC unit is equipped with an economizer system, the thermostat will provide power to the MISC2 or MISC3 terminal of the thermostat when the thermostat is in an occupied time period. The MISC2 or MISC3 terminal will be de-energized when the thermostat is in an unoccupied time period.

Y2 JUMPER SETTING

If the jumper for MISC1 is set to Y2 the MISC1 screw terminal on the backplate will control a second stage of cooling.

Y2 OPERATION - SECTION 13

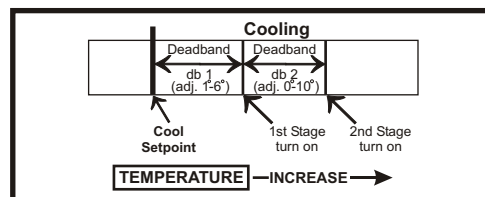
Control up to two Cool stages.

The **2nd Stage** of cool is turned on when:

- (A) The 1st Stage has been on for the time required (step #27, page 13.6). It is adjustable from 0-60 minutes and the default is two minutes.

And

- (B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the deadband (step #24, page 13.5), plus the 2nd deadband (step #25, page 13.5). This 2nd deadband is adjustable from 0-10 degrees and the default is two degrees.



SECTION 22
Factory Defaults, Calibration, and Sensors



Section 22 Contents:

- *Resetting the Thermostat to the
Factory Default Settings.....22.2*
- *Calibrating the Temperature
and Humidity Sensors.....22.3*
- *Viewing the Remote
Temperature Sensors.....22.4*

Resetting the Thermostat to the Factory Default Settings (for default values see page 24.1)

If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset may be permanently lost.

1



Place the thermostat in the OFF mode.



2



Press and hold the MODE button. While holding the MODE button, press and hold the FAN button for 5 seconds. All icons will appear on the display.



3



After all of the icons appear, release the MODE and FAN buttons. Then press and hold the FAN button for 5 seconds.



4

22



After the letters Fd appear on the display (Factory Default), release the FAN button. Press the MODE button **once** to return to normal operation.



Calibrating the Temperature and Humidity Sensors

Under normal circumstances it will not be necessary to adjust the calibration of the temperature and humidity sensors. If calibration is required, please contact a trained HVAC technician to correctly perform the following procedure.

- 1**

MODE Place the thermostat in the OFF mode.
- 2**

MODE Press and hold the MODE button. While holding the MODE button, press and hold the FAN button for 5 seconds. All icons will appear on the display.

FAN
- 3**

PRESS **THERMOSTAT SENSOR**

Press the UP and DOWN buttons at the same time twice. The thermostat temperature will be displayed and may be calibrated using the UP or DOWN buttons.

TWICE

CALIBRATE
- 4**

MODE **REMOTE SENSOR**

Press the MODE button once. The remote sensor temperature will be displayed and may be calibrated using the UP or DOWN buttons. If a remote sensor is not installed, a temperature reading -127 degrees will appear.

CALIBRATE
- 5**

MODE **HUMIDITY SENSOR**

Press the MODE button once. The relative humidity at the thermostat will be displayed and may be calibrated using the UP or DOWN buttons.

CALIBRATE

After calibration is complete, press the MODE button **once** to save your changes and return to normal operation.

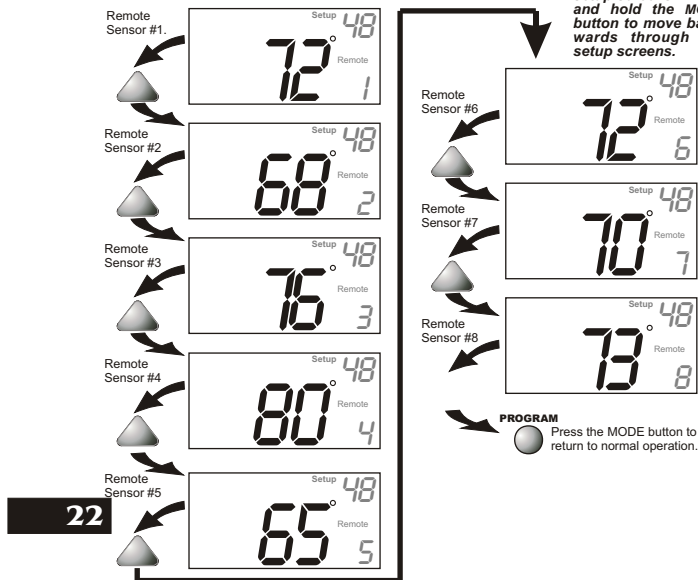
Viewing the Remote Temperature Sensors

Each sensor is programmed with a "hard-coded" address that the thermostat "scans" in order from lowest to highest. Therefore, in order to determine which sensor corresponds to the number on the setup screen you will need to disconnect each sensor from the group in order to determine which sensor number reads dashes.

MODE Press the **MODE** button. While holding the **MODE**,
PROGRAM press the **PROGRAM** button to enter Setup screens.

MODE Press the **MODE** button repeatedly until setup step #48 appears.

*Note: Press the **MODE** button momentarily to move through the setup screens. Press and hold the **MODE** button to move backwards through the setup screens.*



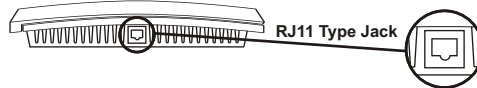
SECTION 23

Accessories

Carrier

ACCESSORY PORT - The RJ11 Jack is used to connect the 33CS450-01 to the IR Receiver P/N 33CSIRRCVR-01 for wireless communication or the EZ Programmer P/N 33CSPGMR-01 for easy downloading or uploading of thermostat information.

The Accessory Port is located on the bottom of the thermostat.



IR RECEIVER / REMOTE CONTROL (optional accessory) - When the IR Receiver is connected, the thermostat can be controlled using an IR Remote Control. The thermostat may also interface with other wireless systems in your home. For more information see the instruction sheet for the IR Receiver (33CSIRRCVR-01).

EZ PROGRAMMER (optional accessory) - When the EZ Programmer is connected, the thermostat Time Period Programming and Advanced Setup Programming can be stored into the EZ Programmer's memory. This information can then be uploaded to other 33CS250-01 thermostats. For more information see the instruction sheet for the P/N 33CSPGMR-01.

SECTION 24 Advanced Setup Table

Carrier

| Step# | Description | Pg# | Range | Df* | Step# | Description | Pg# | Range | Df* |
|-------|--------------------------------|------|---------------|------|-------|--|------|---------------------|--------|
| 1 | Programmable Thermostat | 4.2 | Yes/No | Yes | 27 | Minutes Between Stage 1 & 2 | 13.6 | 0-60min | 2 |
| 2 | Auto-Changeover Thermostat | 4.3 | Yes/No | Yes | 28 | Minutes Between Stage 2 & 3 | 13.6 | 0-60min | 2 |
| 3 | Fan Off Delay | 7.3 | 0, 30, 60, 90 | 0 | 29 | 2nd Stage turn off at setpoint | 13.7 | On/Off | Off |
| 4 | Fan Purge | 7.4 | 0 - 3 hrs. | 0 | 30 | Programmable Output | 14.3 | Off/Time/Temp/Aux | Off |
| 5 | Thermoglow Backlight | 8.2 | Auto/On/Off | Auto | 31 | Programmable Output Polarity | 14.4 | NO/NC | NO |
| 6 | F or C | 8.2 | F/C | F | 32 | 7 Day/1 Day Programmable Output | 14.4 | 7Day/1Day | 7 |
| 7 | Security Level | 8.4 | 0 - 3 | 0 | 33 | Programmable Output Day of the Week | 14.4 | Mo - Su | Mo |
| 8 | Max Heat Setpoint | 8.4 | 35° - 99° | 80° | 34 | Programmable Output Start Time | 14.4 | 24 Hour | 7am |
| 9 | Min Cool Setpoint | 8.4 | 35° - 99° | 65° | 35 | Programmable Output Stop Time | 14.5 | 24 Hour | 9pm |
| 10 | Cool to Dehumidify | 10.4 | On/Off | Off | 36 | Programmable Output Temp. Setpoint | 14.6 | 35° - 125° | 80° |
| 11 | Maximum Dehum Overshoot | 10.4 | 0 - 5° | 3° | 37 | Thermostat control to RS1? | 15.3 | Yes/No | No |
| 12 | Reheat Operation | 10.5 | On/Off | Off | 38 | Thermostat Sensor Averaging | 15.4 | On/Off | Off |
| 13 | DEHUM Terminal Polarity | 10.6 | NO/NC | NC | 39 | Dry Contact Operation | 16.2 | Yes/No | Yes |
| 14 | Energy Watch - Heat Timer | 11.2 | read only | -- | 40 | Dry Contact Polarity | 16.2 | NO/NC | NO |
| 15 | Energy Watch - Cool Timer | 11.3 | read only | -- | 41 | Dry Contact Programming | 16.3 | Occ. 1/ Service Pan | Occ. 1 |
| 16 | Override Run-Time | 11.4 | read only | -- | 42 | Light Activated | 17.2 | Yes/No | No |
| 17 | Reset Service Humidity Icon | 11.5 | read only | -- | 43 | Energy Save | 18.1 | Off/On | Off |
| 18 | Reset UV Light Icon | 11.6 | read only | -- | 44 | Reset Service Filter Icon | 19.2 | read only | -- |
| 19 | Heatpump Jumper Setting | 12.2 | read only | -- | 45 | Service Filter Run Time Set | 19.2 | 0 - 1950 | 0 |
| 20 | Reversing Valve Jumper Setting | 12.2 | read only | -- | 46 | UV Light Run-Time Set | 19.3 | 0 - 1990 | 0 |
| 21 | Electric Heat | 12.3 | read only | -- | 47 | Service Humidify Run-Time Set | 19.4 | 0 - 1990 | 0 |
| 22 | Minimum Heat/Cool Differential | 13.2 | 0° - 6° | 2° | 48 | Viewing the Remote Sensor Temperature(s) | 22.4 | -- | -- |
| 23 | Cycles Per Hour | 13.3 | d1, d, 2-6 | 6 | | | | | |
| 24 | Deadband/Temp. Swing 1st Stage | 13.5 | 1° - 6° | 2° | | | | | |
| 25 | Deadband/Temp. Swing 2nd Stage | 13.5 | 0° - 10° | 2° | | | | | |
| 26 | Deadband/Temp. Swing 3rd Stage | 13.5 | 0° - 10° | 2° | | | | | |

*Df = Factory Default Setting

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Section 26 Warranty



Five-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within five years from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Programming Worksheet

see Section 6

| DAY | PERIOD | START TIME | COOL | HEAT | |
|-----------|------------|------------|------|------|------------------------------|
| MONDAY | Unoccupied | | | | |
| | Occupied 1 | | | | |
| | Occupied 2 | | | | |
| | Occupied 3 | | | | |
| TUESDAY | Unoccupied | | | | <i>Copy Mon → Tue</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |
| WEDNESDAY | Unoccupied | | | | <i>Copy Tue → Wed</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |
| THURSDAY | Unoccupied | | | | <i>Copy Wed → Thu</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |
| FRIDAY | Unoccupied | | | | <i>Copy Thu → Fri</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |
| SATURDAY | Unoccupied | | | | <i>Copy Fri → Sat</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |
| SUNDAY | Unoccupied | | | | <i>Copy Sat → Sun</i> |
| | Occupied 1 | | | | <input type="checkbox"/> No |
| | Occupied 2 | | | | <input type="checkbox"/> Yes |
| | Occupied 3 | | | | |



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