



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



THIS MAY DAMAGE YOUR THERMOSTAT AND VOID YOUR WARRANTY.



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.



Thermostat T2700 Tested to Comply with FCC Standards FOR HOME OR OFFICE USE

Page i

How to Use This Manual

VENSTAR

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.



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

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Glossary of Terms

VENSTAR[®]

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, and 2nd stage cooling.

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*).

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

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Section 1 Contents:

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Mode	1.2
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Temperature	1.3
Using the Fan Button	1.3

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.

Page 1.1





VENSTAR **1** Selecting Your Desired Temperature (adjusting the setpoints) AUTO MODE Pressing the UP or DOWN buttons in Auto mode will adjust both the heat and cool set temperatures simultaneously. Adjust the desired set temperature with the AUTO HEA 58 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. Page 1.3



SECTION 2-	
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Getting to Know	tour i nermostat

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Section 2 Contents:

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SECTION 3— Basic Operation

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Section 3 Contents:

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Manual Operation3.2
Selecting the Proper
Operating Mode3.3
Selecting Your Desired
Temperature3.5

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

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Page 3.2

Operating Mode when the Thermostat is Configured to be:

3 MANUAL-CHANGEOVER - If the thermostat is configured to be Manual-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.



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

Off

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



VENSTAR[®] Operating Mode when the Thermostat is Configured to be: AUTO-CHANGEOVER - If the thermostat is configured to be Auto-Changeover, the following screens will be available by pressing the MODE button. 3 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 Cooling Only The COOL setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room. Pres MODE Heating or Cooling AUTO will automatically select heat or cool based on room Αυτο неат 58 temperature demand.

NODE

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

OFF

Page 3.4

HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat \underline{or} Cool modes will adjust only the heat \underline{or} cool set temperature.



Adjust the desired set temperature with the



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SECTION 4 *Viewing the Temperature and Humidity Sensors*

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Section 4 Contents:

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Temperature4.2
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Humidity4.3

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

Page 4.2



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

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SECTION 5 Override Operation VENSTAR[®]

Overriding the Normal Operation

The OVERRIDE button may only be used when the Dry Contact has forced the thermostat into the Unoccupied mode.

Unoccupied Operation - During a Dry Contact forced unoccupied period pressing the OVERRIDE button will temporarily force the thermostat into the mode it was in before the Dry Contact forced it into the Unoccupied mode. For example: If the thermostat was in the Auto mode and the Dry Contact forced the thermostat into the Unoccupied mode, then pressing the OVERRIDE button will force the thermostat back into the Auto mode.

The remaining override time will be displayed in the upper left hand corner of the 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 Unoccupied mode.

To adjust the setpoints for the Unoccupied mode, see page 15.4.



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SECTION 6 *Programming the Fan Operation*

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Section 6 Contents:

- Using the Fan Button......6.2
 Smart Fan Operation......6.2
- Setting the Fan-Off Time
 - Delay.....6.3

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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.



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 in Heat, Cool or Auto mode, and automatically de-energize during dry contact initiated Unoccupied periods (*see page 14.3*), except when necessary to heat or cool. To use this feature, place the thermostat in the Heat, Cool or Auto mode. Next, press the FAN button to display the **FanOn** icon (*see below*).



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SECTION 7 Thermostat Display Options VENSTAR

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7	Backlight	7.2
	Programming the Thermostat	
	to Display Temperature in	
	Fahrenheit or Celsius	7.2
	Locking/Unlocking the	
	Keypad	7.3
	Programming a Security	
	Level	7.4

Page 7.1



Programming the Thermostat to Display Temperature in Fahrenheit or Celsius



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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.

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When a security level has been programmed, the thermostat will allow limited adjustment to the setpoints (*steps # 6 and 7*). 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 #5 to 0; this will cause steps # 6 and 7 not to appear.



SECTION 8– *Humidification*

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Section 8 Contents:

	Installing the Humidity	
8	Module	8.2
	Setting a Thermostat Jumper	
	for Humidity Operation	8.3
	Adjusting the Humidification	
	Setpoint	8.4

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.

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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.



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Setting a Thermostat Jumper for Humidity Operation

To control a MISC output for humidification, 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 16.

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

•••

MISC1





Page 8.3



If your HVAC unit is equipped with a numidification 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 home 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 9— Dehumidification

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Section 9 Contents:

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	Jumper for Dehumidification	
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	Adjusting the Dehumidification	า
	Setpoint	9.3
	Using Your Air Conditioner	
	to Dehumidify	9.4
	Using the DEHUM	
	Terminal	9.5

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 8.2.

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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 8.2). 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 16.

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





IMPORTANT CAUTION

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Adjusting the Dehumidification Setpoint

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Dehum Terminal: If a MISC terminal selected for DEHUM operation (see page 9.2) then the thermostat will provide power to this terminal the when the humidity in the home is above the setpoint you have chosen. See page 9.6 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 home is above the setpoint you have chosen. See page 9.4 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%.

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



will leave the Humidity Control screens after 30 seconds). **Dehumidification Notes:** Press the button to set the

dehumidification setpoint to 99% for no dehumidification operation. This will lockout Advanced Setup steps 8 and 9 (see page 9.4).

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

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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 #9). For Example: If the cooling overshoot is set for $3^{\circ}F$ and the cooling setpoint is set for $74^{\circ}F$, then as long as the room temperature reads between $71^{\circ}F$ and $74^{\circ}F$ this feature will energize the compressor and fan to dehumidify the air.



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

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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 10 Viewing Equipment Run-Times

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SECTION 11 *Electric Heat and Heat Pump Operation*

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Section 11 Contents:

- Viewing the Heat Pump and Reversing Valve Jumper Setting......11.2
 Viewing the Electric Heat Jumper Setting......11.3
- Using Emergency Heat.....11.4

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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.

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.

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SECTION 12 Timers and Deadbands VENSTAR

Section 12 Contents:

Adjusting the Heat/Cool	
Differential	12.2
Adjusting the Cycles	
Per Hour	12.3
Adjusting the Deadband	12.4
Selecting 2nd Stage Turn	12
Off Temperature	12.6

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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 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.

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Page 12.3



MULTI-STAGE OPERATION - Controls up to two 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 two minutes.

And

(B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #19, next page), plus two degrees.



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VENSTAR[®] 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 12.4 for more information). Press the MODE button. While holding MODE Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move back-wards through the setup screens. the MODE, press the HUMIDITY button to enter Setup screens. HUMIDIT Press the MODE button repeatedly MODE 12 until this setup screen appears. On 20 Select On or Off: ſ Select On or Off: On - 2nd stage will remain on until setpoint is reached. Off - 2nd stage will turn off after reaching 1st stage deadband. OFF Off Πď Pres HUMIDITY (Press the HUMIDITY button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.



SECTION 13 *Programming Remote Sensor Operation*

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Section 13 Contents:

- Installing the Remote
 - Sensors......13.2
- Controlling or Reading the Remote Temperature (RS1)...13.3

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Installing the Remote Sensors

The Remote Sensor measures indoor air temperature and sends this information to the thermostat; it measures temperature with a range of 32° to 99° F.

The Remote Sensor is equipped with an OVERRIDE button which will place the thermostat into the override mode for up to four hours (*see page 5.1*).

The Remote Sensor should be connected to the thermostat using solid conductor CAT 5, CAT 5e, or CAT 6 type network communication cable. This is an unshielded cable with four twisted pairs of 24 gauge solid wire; *DO NOT use stranded cable*. The cable length should not exceed 250 feet. If less than 75 feet of cable is required to connect the thermostat to the Remote Sensor, a three conductor thermostat cable (18-24 gauge) may be used; this cable is NOT suitable for any length greater than 75 feet.



13 IMPORTANT: Do no use shielded wire. Do not run sensor wiring in the same conduit as the 24VAC thermostat wiring. Electrical interference may cause the sensor to give incorrect temperature read-lngs.

See the Remote Sensor instructions for further details.

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SECTION 14 *Programming the Dry Contact*

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- Dry Contact Polarity......14.2
- Dry Contact Programming......14.3
- Override Operation......14.4
- Random Start......14.5

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Random Start Operation

This feature causes 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.
- **Closure of the Dry Contact to force Heat, Cool or Auto Modes:** If step #24 (*page 14.3*) is programmed for Override, 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 #23, page 14.2*). This delay helps to keep multiple thermostats from energizing their outputs each time the Dry Contact is used.

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SECTION 15 — Programming Run-Time Alerts

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- Setting and Resetting the Service Filter (Fan Run-Time) Alert......15.2
- Setting and Resetting the UV Light Run-Time Alert......15.3
- Setting and Resetting the Humidify Run-Time Alert......15.4

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Page 15.1

VENSTAR[®] 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 #28 (below) has been achieved. Setting this counter to zero in step #28 will prevent the Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move back-wards through the setup screens. Service Filter icon from ever appearing. Press the RESET FILTER button to enter this setup screen. Hours the fan has run since last reset ≁0 Setup 2 Press Reset the counter to 0 to remove the Service Filter icon from the display. ervice Filter \bigcirc FAN 0 Adjust the number of hours, in increments of 50, the fan will run before the Service Filter icon appears on the display. 0 = off. 28 15 ervice Filter HUMIDITY (0 - 1950 hours) Press the HUMIDITY button to leave the Setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

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VENSTAR' 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 #29 (*below*). Setting the counter to zero in Step #29 will prevent the Service UV Light icon from ever appearing.



VENSTAR[®] 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 #30 (below) has elapsed. Setting this counter to zero in step #30 will prevent the Service Humidify icon from ever appearing. Press the MODE button. While holding the MODE, press the HUMIDITY button Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move back-wards through the setup screens. MODE to enter Setup screens. HUMIDITY Press the MODE button repeatedly MODE until this setup screen appears. Days since the last rese of the Service Humidify ▶0 nter. Humidify iC Reset the counter to 0 to remove the Service Humidify icon from the display. ervice Press FAN Press the MODE button repeatedly NODE (15 until this setup screen appears. 30 0 Adjust the number of days in increments of 10 before Humidify the Service Humidify icon appears. 0 = Off HUMIDIT (0 - 1990 days) Press the HUMIDITY 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 plán; it only serves as a helpful reminder.

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SECTION 16 *Configuring the MISC Outputs*

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Section 16 Contents:

- Configuring the Jumpers......16.2
- Explanation of Jumper Settings......16.3

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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 four 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 Y2 (second stage cooling) operation.



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Explanation of Jumper Settings

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 8

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 9

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 home is above the dehumidify setpoint you have obcome and there is a cell for the target will be a set for the set of the se 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 home is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.





Explanation of Jumper Settings (continued)

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 12.4

The **2nd Stage** of heat or cool is turned on when: (**A**) The 1st Stage has been on for the two minutes.

And

(B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #19, page 12.5), plus two degrees.



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SECTION 17 *Factory Defaults, Calibration, and Sensors*

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Section 17 Contents:

- Resetting the Thermostat to the Factory Default Settings......17.2
- Calibrating the Temperature and Humidity Sensors......17.3

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Resetting the Thermostat to the Factory Default Settings (for default values see page 19.1)

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 Advanced Programming to the default settings. Any information entered prior to this reset may be permanently lost.





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SECTION 18⁻ **VENSTAR[®]** Accessories

ACCESSORY PORT - The RJ11 Jack is used to connect the T2700 to the IR Receiver (ACC0431) for wireless communication or the EZ Programmer (ACC0432) 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 manual for the IR Receiver (ACC0431).

EZ PROGRAMMER (optional accessory) - When the EZ Programmer is connected, the thermostat Advanced Setup Programming can be stored into the EZ Programmer's memory. This information can then be uploaded to other T2700 thermostats. For more information see the manual for the (ACC0432).

COMFORT CALL (optional accessory) - When Comfort call is connected, the thermostat's Heating and cooling functionality 18 may be accessed and controlled through the phone. For more information see the manual for Comfort Call (ACC0433).

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SECTION 19 Advanced Setup Table VENSTAR [®]									
Ste	p# Description	Pg#	Range	Df*	Ste	p# Description	Pg#	Range	Df*
1	Auto-Changeover Thermostat	3.2	Yes/No	Yes	17	Minimum Heat/Cool Differential	12.2	0°-6°	2°
2	Fan Off Delay	6.3	0, 30, 60, 90	0	18 19	Cycles Per Hour Deadband/Temp.	12.3 12.5	d1, d 2-6 1 - 6	6 2°
3	Thermoglow Backlight	7.2	Auto/On/ Off	Au- to	20	Swing 1st Stage 2nd Stage turn off at	12.6	On/Off	On
4 5	F or C Security Level	7.2	F/C 0-3	F 0	21	setpoint Thermostat control	13.3	Yes/No	Yes
6 7	Max Heat Setpoint Min Cool Setpoint	7.4	35 - 99 35 - 99°	80 [°] 55°	22	Dry Contact	14.2	Yes/No	No
<u>8</u> 9	Maximum Dehum	9.4	0°-5°	3°	23	Dry Contact Polarity	14.2	NO/NC	NO
10	DEHUM Terminal Polarity	9.5	NO/NC	NC	24	Programming	14.5	Service Pan	rride
11	Override Run-Time	10.2	read only		25	Unoccupied Cool	14.4	35 - 99	85
12	Reset Service Humidify Icon	10.3	read only		<u>26</u> 27	Unoccupied Heat Reset Service Filter	<u>14.4</u> 15.2	<u>35 - 99</u> read only	<u>55</u>
13	Reset UV Light Icon	10.5	read only			lcon			
14	Heatpump Jumper Setting	11.2	read only		28	Service Filter Run	15.2	0 - 1950	0
15	Reversing Valve Jumper Setting	11.2	read only		29	UV Light Run-Time Set	15.3	0 - 1990	0
16	Electric Heat	11.3	read only		30	Service Humidify Run-Time Set	15.4	0 - 1990	0

*Df = Factory Default Setting

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Section 21 · *Warrant*y

VENSTAR

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year 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 liself 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:

- Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
- Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
 Damage as a result of floods, winds, fires, lighthing, accidents, corrosive environments or
- 4. Damage as a result of floads, 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.
- Parts not supplied or designated by the Manufacturer, or damages resulting from their use
 Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
- Centrada.
 Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric boat.
- including additional or unusual use of supplemental electric heat.
 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.

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