



Follow the <u>Installation Instructions</u> 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 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 P374-2900 Tested to Comply with FCC Standards FOR HOME OR OFFICE USE

Page i

How to Use This Manual

TOTALINE

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 Contents of each 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

TOTALINE

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 operate with regards to 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. Page iii

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

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TOTALINE Selecting Your Desired Temperature (adjusting the setpoints) 1 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 12:00 pm AUTO 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 12:00 Pm buttons. Using the Fan Button Press 12:00 pm 75 Cool



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 1.4



SECTION 2— Getting to Know Your Thermostat TOTALINE

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SECTION 3— Setting the Clock and Day TOTALINE

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

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TOTALINE

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Operating Mode4.3
Selecting Your Desired
Temperature4.7

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

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TOTALINE Operating Mode when the Thermostat is Configured to be:



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

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.

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





TOTALINE 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 4 Select the Mode by Pressing the MODE Button 12:00 Pm Heating Only The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room. неат 58 Press 12:00 pm 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 12:00 pm 75 Heating or Cooling AUTO will automatically select heat or cool based on room Αυτο неат **58** temperature demand. 12:00 Pm Off OFF indicates both heating

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OFF

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. Select the Mode by Pressing the MODE Button 4

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.

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).

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).

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



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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.

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.



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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 5 Viewing the Temperature and Humidity Sensors TOTALINE

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Requires an outside sensor (optional accessory) to be installed. 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 High and Low temperatures for



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

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



"-<u>92</u>

Outside °58 Current outside temperature.

Low temperature for the day.

Note: If no sensors are connected 2 dashes [- -] will appear. Page 5.2



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 6 Programming the Daily Schedule TOTALINE

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Schedule	6.6

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- * 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. * Page 6.5



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.

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.



SECTION 7— Programming the Fan Operation TOTALINE

Section 7 Contents:

- Using the Fan Button......7.2
 Setting the Fan-Off Time Delay......7.3
 - Fan Purge Operation.....7.4

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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.

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SECTION 8-Thermostat Display Options TOTALINE

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Programming the Thermostat to Display Temperature in Fahrenheit or Celsius



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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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SECTION 9– Humidification

TOTALINE

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	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.

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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 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.



•••

MISC3



ON THE SAME MISC JUMPER BLOCK! THIS MAY DAMAGE THE THERMOSTAT AND VOID YOUR WARRANTY

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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 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.



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.

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SECTION 10-Dehumidification Totaline

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	Function10.5
•	Using the DEHUM
	Terminal10.6

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.

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Setting a Thermostat Jumper for Dehumidification Operation

To operate one of the MISC outputs using dehumidification-based operation, 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.







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If your HVAC unit is equipped with a denumidification terminal 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 is above the setpoint you have chosen. When the indoor humidity rises above the setpoint you have selected, the appropriate terminal will be de-energized (*see page 10.6*). 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.



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.

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

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

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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.

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SECTION 11 Viewing Equipment Run-Times TOTALINE

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11	Viewing the Override
	Run-Time11.4
•	Viewing the Humidifier
	Run-Time 11.5
	Viewing the UV Light
	Run-Time11.6

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* 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.

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* 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.

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SECTION 12— Electric Heat and Heat Pump Operation

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Reversing Valve Jumper	
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Jumper Setting	12.3
12 ■ Using Emergency Heat	12.4

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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.

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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 13-Timers and Deadbands TOTALINE

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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. Press the MODE button until only the cool setpoint is displayed. Adjust the desired setpoint. Press the MODE button again to enter the Auto-Changeover mode where both the heat and cool setpoints are displayed.





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TOTALINE 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.
- $\mathbf{13}$ (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.



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.





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

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

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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
- Internet/Phone Control of the Programmable Output......14.7

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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 22.

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



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TOTALINE Time-Based Control of the Programmable Output To operate one of the MISC outputs using time-based operation, set the Advanced Setup step #30 (below) for Time. This terminal is especially useful for devices that require a start and stop time. This extra output will supply 24VAC to the selected MISC terminal based on the programming described in pages 14.4 - 14.5. 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. Note: Press the MODE button momentarily to move through the setup screens. Press and hold the MODE button to move back wards through th setup screens. Press the MODE button. While holding MODE (the MODE, press the PROGRAM PROGRAM button to enter Setup screens. Press the MODE button repeatedly MODE (until this setup screen appears. ← OFF → Time = 18:88 → Temp = 88 → Aux -2 30 Press the UP button to set the programmable output for time based operation. The digits in the clock area will appear. OFF Continued on the next page

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TOTALINE Internet/Phone Control of the Programmable Output To operate one of the MISC outputs 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. Press the MODE button. While holding MODE Note: Press the MODE the MODE, press the PROGRAM 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. PROGRAM ()button to enter Setup screens. Press the MODE button repeatedly, until this setup screen appears. 14 $C^{OFF} \rightarrow Time = 18:88 \rightarrow Temp = 88^{\circ} \rightarrow Aux \rightarrow Correct A$ Setur 30 Press the UP button three times to set the programmable output for Aux (web-based Remote operation). 3 NC Programmable Output Polarity: NO = Normally Open to operate when programmed to be ON through the phone or internet. NC = Normally Closed to operate when programmed to be OFF through the phone or internet. NO

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

TOTALINE

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Cont	trolling or Reading	g the
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(RS	1) with the Therm	ostat
Sen	nsor	15.4
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Installing the Remote Sensors

Up to eight wired remote sensors may be installed on the thermostat (RS1) to control the temperature in other rooms. 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.



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



See the Remote Sensor accessory for further details. Page 15.2



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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. This is the factory default condition.

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.



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SECTION 16 Programming the Dry Contact TOTALINE

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

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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.
- 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 16 Contact is used.

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 TOTALINE

Section 17 Contents:

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

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TOTALINE 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). Press the MODE button. While holding 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 the MODE, press the PROGRAM PROGRAM button to enter Setup screens. Press the MODE button repeatedly MODE (until this setup screen appears. по 42 Select YES if the thermostat should be Light Activated. Select NO to allow only Time Period Programming (Section 6). 17 Pre 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. The Light Sensor is located on the top of the thermostat. P374-2900 Light Sensor

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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.



SECTION 18 Energy Save Operation TOTALINE

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 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.



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SECTION 19 — Programming Run-Time Alarms TOTALINE

Section 19 Contents:

- Setting and Resetting the UV Light Run-Time Alarm......19.3
- Setting and Resetting the Humidify Run-Time Alarm.....19.4

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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





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.

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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.

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SECTION 21 Configuring the MISC Outputs TOTALINE

Section 21 Contents:

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

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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.











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 - SECTION 14

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 And is two minutes.
 - (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:



- By Time: A device that requires a start and stop time. An example of this would be 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 RS2 rises above 90 degrees F.
- By Remote: Remotely arming a security system through the web or phone.

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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 OFF.

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 home 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 home is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.



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TOTALINE

Explanation of Jumper Settings (continued)

ECON JUMPER SETTING If the jumper for MISC1, 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 MISC1, MISC2, or MISC3 terminal of the thermostat when the thermostat is in an occupied time period. The MISC1, 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 14

Control up to 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 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.



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SECTION 22 Factory Defaults, Calibration, and Sensors

TOTALINE

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

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TOTALINE 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.









WEB KIT (optional accessory) - The P374-2900 Thermostat is capable of communication via the World Wide Web and phone by installing the optional Web Kit. Heating and cooling functionality may be accessed and controlled through the phone or internet. For more information contact your dealer.

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A	Advanced Setup Table						TOTALINE		
Ste	p# Description	Pg#	Range	Df*	Ste	p# Description	Pg#	Range	Df*
1	Programmable Thermostat	4.2	Yes/No	Yes	27	Minutes Between Stage 1 & 2	13.6		2
2	Auto-Changeover Thermostat	4.3	Yes/No	Yes	28	Minutes Between Stage 2 & 3	13.6		2
3	Fan Off Delay	7.3	0, 30, 60, 90	0	29	2nd Stage turn off at setpoint	13.7	On/Off	On
4	Fan Purge	7.4	0 - 3 hrs.	0	30	Programmable	14.3		Off
5	Thermoğlow Backlight	8.2	Auto/On/ Off	Au- to	31	Output Programmable	14.4	Temp/Re NO/NC	NO
	ForC	8.2 8.4	F/C	F	32	Output Polarity 7 Dav/1 Dav	14.4	On/Off	Off
7	Security Level Max Heat Setpoint	8.4	0 - 3 35°- 99°	0 80°	32	Programmable Output	14.4		Oii
9	Min Cool Setpoint Cool to Dehumidify	8.4 10.4	35°- 99°	65° Off	33		14.4 eek	Mo - Su	Мо
	Maximum Dehum Overshoot	10.4	0°-5°	3	34	Programmable Output Start Time	14.4		7an
	Reheat Operation	10.5		Off	35		14.5	24 Hour	9pn
	DEHUM Terminal Polarity	10.6		NO	36		14.6	35°-125°	80°
	Heat Timer	11.2			37	Temp. Setpoint Thermostat READ to RS1	15.3	Yes/No	Yes
	Energy Watch - Cool Timer	11.3			38	Thermostat Sensor	15.4	On/Off	Off
<u>16</u> 17	Override Run-Time Reset Service Humidify Icon	11.4 11.5			39	Averaging Dry Contact Operation	16.2	Yes/No	No
18	Reset UV Light Icon	11.6			40	Dry Contact Polarity	16.2		NO
	Setting	12.2			41	Dry Contact Programming	16.3	Occ. 1/ Service Pan	Осс 1
20	Reversing Valve Jumper Setting	12.2			42	Light Activated	172	Yes/No	No
21	Electric Heat	12.3			43	Energy Save	18.1	Off/On	Off
	Minimum Heat/Cool Differential	13.2	0°-6°	2°	44	lcon	19.2		
23	Cycles Per Hour	13.3	d1, d, 2-6	6	45	Service Filter Run	19.2	0 - 1950	0
24	Deadband/Temp. Swing 1st Stage	13.5	1°-6°	2°	46		19.3	0 - 1990	0
	Deadband/Temp. Swing 2nd Stage	13.5		2°	47	Set Service Humidify	19.4	0 - 1990	0
26	Deadband/Temp. Swing 3rd Stage	13.5	0°- 10°	2°	48	Run-Time Set Viewing the Remote Sensor Temperature(s)	22.4		

*Df = Factory Default Setting

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Section 26 Warranty

TOTALINE^{*}

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 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 WARRANTIES MADE IN THIS WARRANT ARE EXCLUSIVE AND MAY NOT BE ALTERED, UNITED IN ANY ANY DISTRIBUTOR OF ANY OF A PARTICIDAR OF ANY OF A PARTICIDAR OF ANY OF WHATSOFVER.

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.
- 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.
 Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or
- other conditions beyond the control of the Manufacturer. Parts not supplied or designated by the Manufacturer, or damages resulting from their use. 5. 6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and
- Canada. 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

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mm	ing Worl	ksheet			see Secti
DAY	PERIOD	START TIME	COOL	HEAT]
м	Unoccupied				
Ö N	Occupied 1				
	Occupied 2				
Ŷ	Occupied 3				
Т	Unoccupied				Copy Mon→Tue
E E	Occupied 1				
TUESDAY	Occupied 2				Yes
Ŷ	Occupied 3				
¥	Unoccupied				Copy Tue→Wed
Smozmoday	Occupied 1				No
E S	Occupied 2				 □ Yes
Ą	Occupied 3				
I	Unoccupied		Copy Wed-	Copy Wed→Thu	
	Occupied 1				$\square N \circ$
TH URSDAY	Occupied 2				☐ Yes
Ŷ	Occupied 3				
F	Unoccupied				Copy Thu \rightarrow Fri
F R D A Y	Occupied 1				
DA	Occupied 2				 ∏ Yes
Y	Occupied 3				
	Unoccupied				<u>Copy Fri →Sat</u>
SATURDAY	Occupied 1				
RD	Occupied 2				 ∏ Yes
Ŷ Oc	Occupied 3				1 -
s	Unoccupied				<u>Copy Sat</u> →Sun □ No
S U N D A Y	Occupied 1				
DA	Occupied 2				☐ Yes
Y	Occupied 3				

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