

COMMERCIAL

Digital 7-Day Programmable

Comfort-Set* 90 Series PREMIUM

Operating Instructions 1F93-380 Retain for Future Use

- WHITE-RODGERS



INTRODUCTION

Thank you for purchasing your new Comfort-Set® 90 Series thermostat. Your new White-Rodgers Thermostat uses solid state microcomputer technology to provide precise time/temperature control. This thermostat offers the flexibility to design heating and cooling programs that fit your needs.

Adaptable to most 24 volt light commercial forced air, multistage or heat pump systems with electric or fossil fuel auxiliary.

You will find information about thermostat buttons and display in the component section beginning on page 2. Instructions for optional thermostat configuration begin on page 4. Programming information begins on page 7. Descriptions of the thermostat's features begin on page 11.

We have also added thumb tabs to help you find sections of the manual.

Configuration

Programming

Index

ORIENTATION

THE THERMOSTAT BUTTONS

See inside front cover for illustration showing button locations.

(Blue arrow) Lowers temperature setting (45°F or 7°C minimum)

2 (Red arrow) Raises temperature setting (99°F or 37°C maximum)

3 The multi-color indicator glows: green for 1st stage, yellow for 2nd stage, red for emergency heat and flashing red for malfunction condition in system.

• This button (on top of the cover) lights the display.

5 Used to initiate or review thermostat programming or advance to next program period in programming mode.

6 Used with TIME FWD /TIME BACK to set the clock. Used to adjust the time backward, or to select the previous menu item.

3 Used to adjust the time forward, or to select the next menu item.

9 Used with TIME FWD/TIME BACK to set the current day.

Used to advance operation to the next program period or advance to the next day in programming mode.

Used to manually override programming to hold at a selected temperature.

Used to enter and configure the VACATION mode.

Selects fan operation (see The Display 2). This button is also used to program the fan to run continuously during a program period.

Used to set the filter change-out time, or to reset the filter change timer.

Sets the system mode (HEATing, EMERgency, OFF, COOLing, or AUTOmatic changeover).

Used to adjust the clock one hour forward or back.

Used to start or return to program operation.

THE DISPLAY Displays system mode (HEAT, EMER, OFF, COOL, AUTO, HOLD, or VACA). During programming displays the time period (OCCU, UNOC) being programmed.. In the configuration menu, the menu item name is shown, one word at a time (PRGM MODE, EMR, COOL FAN DELA OFF, etc.). CHECK STAT appears when the thermostat detects certain problems within itself. CHECK SYSTEM appears when the thermostat detects certain problems in heating or cooling the system.

Dindicates the length of time remaining in a temporary hold condition. Also indicates the length of time remaining in VACATION mode.



Displays FAN ON when the fan is operating continuously. Displays FAN AUTO when the fan cycles with the heating or cooling system. Displays PRG FAN ON when fan is programmed to be on during a period.

22 Displays the setpoint temperature.

Alternately displays room temperature and time of day.

2 Shows the current day of the week. When programming, shows the day(s) being programmed.

The word **HEAT** or **COOL** will appear above or below the setpoint if area B is needed to display other information.

Figure 1. The Display

Orientation

CONFIGURATION

The configuration menus allow you to set certain thermostat operating characteristics to your system or personal requirements.

To enter the User Configuration menu, press **PROGRAM RUN** to make sure the thermostat is in the run program mode, then press **TIME FWD** and **TIME BACK** at the same time. The display will show the first item in the configuration menu.

The following charts (pages 5 & 6) describe each item on the menus. Press **TIME FWD** to move forward to the next item in the menu or **TIME BACK** to move backward to the previous item. Set these according to your personal preference using or . To enter the Keypad Lock menu, while in the User Menu, press and hold **TIME FWD** and **TIME** To exit either menu and return to normal operation, press **PROGRAM RUN**. To re-enter to the User menu at any time press **PROGRAM RUN**, then press **TIME FWD** and **TIME BACK** at the same time. While in the menus, if you do not press any buttons for **two** minutes, the thermostat will revert to normal operation.

BACK for at least two seconds.

User Menu

Step	Press Button(s)	Displayed (Factory Default)	Press or v to select:	COMMENTS	Ref Page
1	TIME FWD and TIME BACK	0 °F (room temperature)	5 LO to 5 HI	Adjusts temperature display higher or lower.	11
2	TIME FWD	EMR (ON)	OFF or ON L	Selects EMR option ON or OFF or L ON.	11
3	TIME FWD	(°F)	°C	Adjusts temperature display to °F or °C.	12
4	TIME FWD	SET FAN (0)	0 - 6 HRS	Set Fan (one shot) option. Set the duration of a temporary fan option.	12
5	TIME FWD	BEEP (ON)	OFF	Turns keypad beeper ON or OFF.	12
6	TIME FWD	HEAT FAST (OFF)	ON	OFF delays starting second stage for economy. ON starts second stage earlier with user intervention.	12
7	TIME FWD	COOL FAST (OFF)	ON	OFF delays starting second stage for economy. ON starts second stage earlier with user intervention.	12
8	TIME FWD	TEMP OUT (OFF)	ON	Enables outdoor temperature sensor. Requires optional remote sensor connected to terminal OT and remote thermistor probe. Also displays outdoor temperature if active.	12

User Menu (Continued)

9	TIME FWD	FONE (Icon) (OFF)	ON	Telephone RUN program feature. Requires optional X10 system.	12
10	TIME FWD	COMP RUN TIME (00)	(Compressor run time in hours)	Shows accumulated time compressor has run. To reset to 00, press 🔿 and 💙.	13
11	TIME FWD	AUX RUN TIME (00)	(AUXILIARY run time in hours)	Shows accumulated time AUXILIARY has run. To reset to 00, press and .	13
12	PROGRAM RUN			Returns to normal operation.	

Keypad Lockout Menu (access from User Menu)

Step	Press Button(s)	Displayed (Factory Default)	Press or v to select:	COMMENTS	Ref Page
1	TIME FWD and TIME BACK (hold for two seconds)	PART LOCK (OFF)	ON	Partial Keypad lockout OFF or ON.	13
2	TIME FWD	LOCK (OFF)	ON	Total Keypad lockout OFF or ON.	13
3	PROGRAM RUN			Returns to normal operation.	

PROGRAMMING

MANUAL OPERATION

Your Comfort-Set® 90 Series thermostat can be used to control temperature manually (without programming). For manual operation, press **SYSTEM** to select **HEAT** or **COOL**, then press **PROGRAM HOLD**. Use **(**) or **(**) to set the temperature as desired.

PROGRAMMED OPERATION Planning Your Program

The sample schedule (page 9) shows the factory installed programs for heating and cooling. The heating and cooling programs are separate, and must be programmed individually. To use the factory program, set the clock and press **PROGRAM RUN** with the thermostat **SYSTEM** set to **Heat, Cool**, or **Auto**. Fill out the blank schedule (page 10) with the time and temperatures you want in **your** program. Fill in every space for your program.

The same temperature can be repeated more than once if you do not want the temperature to change over several time periods.

Entering Your Program

To Set the Clock:

1. Press PROGRAM RUN.

2. Press **SET TIME**. The display will show the hour. Use **TIME FWD** or **TIME BACK** to set to the current hour and AM/PM designation.

3. Press **SET TIME** again. The display will show minutes. Use **TIME FWD** or **TIME BACK** to set to the current minutes.

4. Press PROGRAM RUN

To Set the Day:

5. Press **SET DAY**. The display will indicate a day of the week. Use **TIME FWD** or **TIME BACK** to set to the current day of the week.

6. Press PROGRAM RUN.

To Set the Program:

7. Press **SYSTEM** to select **HEAT** (for heating program) or **COOL** (for cooling program).

8. Press **PROGRAM VEW** one time. The display will show **OCCU** and the settings for time and temperature. The display will also show **MON** for Monday.

9. If you program Monday the first time you press **PROGRAM** (VEW) it will be copied to the rest of the week. To program the other days of the week press (ADV. /DAY until you reach the

Programming

day you wish to change and follow Steps 10, 11 & 12. You can also copy the program from one day to another. To copy, press HOLD/COPY. The display will show COPY, and all the other days of week will be flashing. Press HOLD/COPY again to copy the day into the rest of the week or press TIME FWD or TIME BACK until you reach the day you want to copy to and press HOLD/COPY.

10.Press **TIME FWD** or **TIME BACK** to set the time on the display as selected in your **HEATING** or **COOLING SCHEDULE.** Be sure to check the AM or PM on the display.

11. Press the red or blue very conduct the temperature to match your schedule. If you want the fan ON continuously during this period, press

12. Press **PROGRAM VIEW** one time. **OCCU** on the display will change to

UNOC. Repeat steps 10 and 11 to enter time and temperature for this period.

13. Press **PROGRAM ADV** to change **MON** to **TUE** and show the **OCCU** time and temperature settings. Repeat steps 10 through 12 to enter times and temperatures for this day.

14. Continue through the entire schedule, entering time and temperature for each day and period. When you are satisfied that your program matches your schedule, press **PRO-GRAM RUN**. Programming is now complete for this mode and your program is running.

15. To program the other mode, repeat the procedure from step 7.

Sample Program Schedule (Shows factory programming)

	0				0			
	3	4	5	6	3	4	5	6
MON	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
TUE	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
WED	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
THU	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
FRI	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
SAT	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON
SUN	8:00 AM	70°F (21°C)	78°F (25°C)	ON	5:00 PM	62°F (17°C)	85°F (29°C)	ON



1 Occupied (OCCU)

Unoccupied (UNOC)



Heating Temperature

5 Cooling Temperature

6 Program Fan

9



Personal Program Schedule

	0			2				
	3	4	5	6	3	4	6	6
MON								
TUE								
WED								
THU								
FRI								
SAT								
SUN								



1 Occupied (OCCU)

2 Unoccupied (UNOC)

3 Start Time

4 Heating Temperature

5 Cooling Temperature

6 Program Fan

FEATURES

CONFIGURATION MENU FEATURES Adjustable Temperature Display.

(User menu, Item 1) The room temperature display can be adjusted to read higher or lower by following the User menu and adjusting the temperature to a higher or lower value. The thermostat is calibrated at the factory to display a very accurate room temperature, but due to various conditions and/or personal preference, you may wish to adjust the thermostat display higher or lower (up to 5°F). For example, if the thermostat displays a room temperature of 70° but you want it to display **73**°, you can adjust it. To adjust, refer to the CONFIGU-RATION section (page 5, item 1).

Selectable Energy Management Recovery (EMR).

(User menu, Item 2) EMR causes the thermostat to start operating the system

early in order to make the building temperature reach your program setpoint at the time you specify. In multistage heating, the thermostat will start 8 minutes early for every 1°F difference between the room temperature and the next programmed temperature. In cooling and heat pump applications, the thermostat uses 15 minutes per °F. For heating applications in large buildings where extra time to reach the set temperature may be desired, EMR Long may be selected. When EMR ON L is selected in the user menu (page 5, item 2) the thermostat uses 15 minutes per °F.

EXAMPLE: If the temperature in the room is 65°F and the thermostat is programmed for 70°F at 7 AM, the thermostat will start approximately 40 minutes early. The difference between

the room temperature (65°F) and the setpoint (70°F) is 5°. 5° X 8 minutes per °F = 40 minutes. The setpoint on the display will actually change to display 70° about 40 minutes early.

The maximum time the thermostat can start early in heating is 75 minutes (or 3 hours, 45 minutes if **EMR ON L** is selected). The maximum time in cooling and heat pump applications is 3 hours and 45 minutes. Cooling or heat pump applications start earlier because it takes longer to reach the desired temperature. This feature also minimizes the use of the auxiliary stages if conditions are such that the compressor stages are adequate to reach the desired setpoint.

To select or deselect this feature, refer to the CONFIGURATION section (page 5, item 2).

Fahrenheit or Celsius Temperature Display.

(User menu, Item 3) This thermostat is factory set to display temperature in Fahrenheit. If you prefer, you may configure the thermostat to display Celsius. See the CONFIGURATION section (page 5, item 3).

One Shot Fan Control.

(User menu, Item 4) This feature allows you to have the fan run ("one shot fan") for a predetermined period of time by pressing the FAN key twice within 1.5 seconds. If a time is set in the User menu (page 5, item 4) the display will show FAN, # hrs and PRG FAN ON for six seconds. After six seconds the display will continue to indicate PRG FAN ON for the time period selected. After this time period, the fan will return to normal operation. To return the fan to normal operation before the end of the time period, press the FAN key.

Beeper on.

(User menu, Item 5) The thermostat has a beeper that will emit a tone when any key is pressed. In the user menu, the BEEP feature can be turned OFF using or to provide silent key operation.

Heat Fast.

(User menu, Item 6) This feature, when set to ON, will bring the second stage of heating on any time you manually raise the temperature three or more degrees above room temperature. If Heat Fast is set to OFF, the thermostat will delay the second stage from 0 to 30 minutes based on how well the first stage is keeping up with your setting.

Cool Fast.

(User menu, Item 7) This feature, when set to ON, will bring the second stage of cooling on any time you manually lower the temperature three or more degrees below room temperature. If Cool Fast is set to OFF, the thermostat will delay the second stage from 0 to 30 minutes based on how well the first stage is keeping up with your setting.

Outdoor Temperature Sense.

(User menu, Item 8) A remote sensor (F145-1378) may be installed for outdoor temperature measurement. The sensor must be properly connected and enabled using the User menu. The display shows the outdoor temperature from -40° to 140°F by pressing the light button twice within one second when the thermostat is in program run or hold mode.

Activate RUN PRG by Telephone.

(User menu, Item 9) With the optional X-10 Telephone Responder, Model TR551, and Universal Low Voltage Module, UM506, installed, you can make a telephone call to run your program if the thermostat has been set to Hold or Vacation Hold. These items are available from Radio Shack.

Compressor Run Time and Auxiliary Run Time.

(User menu, Item 10 and 11) You can see how long the compressor has run (in hours) by viewing the User table, Item 10. You can see how long the system Auxiliary has run (in hours) by viewing the User table, Item 11. These can be reset to 00 when displayed by pressing and at the same time.

Keypad Lockout.

(**Keypad Lockout table**) This security feature allows you to lock out the

keypad to prevent unauthorized tampering with the program. Two levels of security are available, Total Keypad Lockout or Partial Keypad Lockout. Total Keypad Lockout renders all buttons inoperative. Partial Keypad Lockout allows only the or **v** to operate for temporary temperature overrides. It also limits the temperature to the maximum heating and minimum cooling temperatures used in your program. This is especially useful in buildings where unscheduled events are common. Anyone can change the temperature, but only between the temperatures you set and only for the number of hours you specify if you set up your Hold Till timing (see "Temporary Program Override" (page 15). To select or deselect this feature. refer to the CONFIGURATION section (page 6, Keypad Lock menu).

TRADITIONAL FEATURES Automatic Changeover.

If you have a heating/cooling system, the thermostat can be set to automatically switch the system between heating and cooling as needed. To set your thermostat to this operating mode,

press **SYSTEM** button until **AUTO** is displayed on the screen.

Factory Preprogrammed Times and Temperatures.

This thermostat has been programmed at the factory. The chart in the programming examples section lists these factory settings. If the times and temperatures are the same as your schedule, you may simply run the factory installed program by pressing **PROGRAM RUN**.

Compressor Short-Cycle Protection.

Your thermostat is designed to protect your system against premature

compressor failure by "locking out" the compressor. This ensures that the compressor will stay off for at least five minutes on each cycle. When the thermostat is in compressor lock-out, the word COOL will flash. During this period, the compressor will not be energized

Programmable Fan Control.

This feature allows you to have your fan operate continuously through one or more programmed time periods. This is useful if you want to have constant air circulation during a specific time period. If you do not use this feature, the fan will cycle normally with the heating and cooling system.

To program the fan, follow the steps in the PROGRAMMING section. In each time period, you can press the **FAN** key to select a continuous fan or a normally cycling fan. The display will show **PRG FAN ON** when continuous fan is selected. This means at the time you set the period to start, the fan will come on and run until the next program time period

Example: Your thermostat is programmed with the original factory settings for the Monday OCCU period in the heating mode.

Pressing **PROGRAM VIEW** will display **OCCU**, **8AM**, **70** and **PRG FAN ON**. Pressing the **FAN** key will toggle the programmable fan off and a second press would turn it back on. When **PRG FAN ON** is in the upper right of the display, your thermostat is programmed to adjust the temperature to 70° at 8AM and **also** bring the fan on to run constantly until the next program time period.

At the next time period you may choose to continue the program fan feature. Change to the next program period and press the **FAN** key until **PRG FAN ON** is on the display. The fan will continue to run through this period as well as the previous one.

If the thermostat is in a period with continuous fan and you want the fan to cycle, press the **FAN** key. **PRG FAN ON** on the display will turn off.

Air Filter Change-Out Indicator.

This feature allows the thermostat to display **CHNG FLTR** (change filter) after a set time of fan operation. This is a reminder to change or clean your air filter. The factory set interval for **CHNG FLTR** to be displayed is 200 hours of fan operation. This can be set anywhere from 0 to 1950 hours in 25 hour increments. **A selection of 00 will cancel this feature.**

When **CHNG FLTR** is displayed, you can clear it by pressing the **FILTER** key. This resets the timer and starts counting the hours until the next filter change.

The following steps will allow you to change the number of hours for filter change-out.

1. If **CHNG FLTR** is on the display, press the **FILTER** key once to reset the timer. If you do not see **CHNG FLTR** proceed to step 2.

2. Press the FILTER key, The display will show **SET FILTER TIME** and the number of hours remaining before **CHNG FLTR** indicator will display.

3. Press the **FILTER** key a second time. The display will show **SET FILTER TIME** and will show the number of hours to filter change.

4. Press **TIME FWD** or **TIME BACK** to change the time to your requirements.

5. Press **PROGRAM RUN** to return to the normal operating mode. NOTE: If unsure what interval to use

between filter changes or cleaning,

contact the manufacturer of your heating/cooling equipment.

System and Thermostat Diagnostics.

The display will indicate **CHECK SYS** if the room temperature does not rise within two hours of the call for heat. After two hours the thermostat will quit calling for heat for one minute (this allows some furnaces to reset) and call for heat again. It will repeat this sequence three times. If the temperature still does not rise, it will continue to call for heat. This normally indicates the heating system is not working correctly. You may wish to consult your furnace manufacturer or service person.

The display will indicate **CHECK STAT** if one of the following occurs.

• One of the keys is stuck down or in. Check the keys, make sure nothing is pushing them in. • The thermostat sensor is not functioning. If using a remote sensor, check connections, wiring and power.

After checking the above, press **PROGRAM** RUN to reset the display. If this does not clear the display, disconnect power for five minutes.

If these checks fail to solve the problem, the thermostat should be replaced.

Temporary Program Override.

Any time your program is running and you would like to override it for a specific amount of time, press or or until the temperature you want is displayed. The display will indicate **HOLD**, and the number of hours remaining in the hold period will be indicated with the word **HRS**. To adjust the length of time for the override, press **TIME** FWD or **TIME** BACK. HOLD TILL will be displayed as well as the HOLD period expiration time. Press the **TIME FWD** or **TIME**

BACK keys until you reach the time you would like it to resume the program. The TIME FWD or TIME BACK keys adjust the time in 15 minute increments. This programmed hold time has a 19 hour maximum. Beyond 19 hours you may wish to use the vacation hold feature (page 16). If you need to, you can adjust the temperature up or down.

Indefinite Program Hold.

If you want to operate the thermostat to keep a set temperature without a program running, press **PROGRAM HOLD**. The or keys can be use to raise or lower the temperature. The thermostat will hold the set temperature until you return to the program by pressing **PROGRAM RUN**

Programmable Vacation Time/ Temperature Operation.

The **VACATION** key allows you to program the thermostat to hold a constant temperature for 1 to 29 days. At the end of the day and time you select, the thermostat will return to normal program operation.

To program the number of days, press VACATION. VACA HOLD TILL will be displayed. The display will also show DAYS (flashing) and the number 5 to indicate the factory default of a 5 day period. To change the number of vacation days, press TIME FWD or TIME BACK. Press or to

set the temperature you wish to maintain while away. While still in the vacation mode, set the time you want the program to resume by pressing **SET** TIME once. The current time will display. Press only **TIME FWD** to adjust the time in 15 minute increments. You may wish to select a few hours in advance of your expected return to allow time to reach the desired temperature. Your thermostat is now programmed to hold the temperature you selected through your vacation for HEAT, COOL, or AUTO.

After 20 seconds the display will return to time/temperature alternation, and will display VACA. Pressing VACATION again will activate the vacation mode settings. Pressing PROGRAM RUN cancels this feature and begins running your normal program.

Optional Remote Temperature Sense.

Up to three remote sensors (F145-1328) can be attached to this thermostat to sense indoor temperature at locations away from the thermostat. Each sensor may be located as far as 200 feet away from the thermostat. This is an excellent feature if the thermostat is in a poor location for sensing temperature or if you want to install the thermostat in a separate room to prevent tampering. After installing and connecting the remote sensor(s) to the thermostat, the installer can enable each remote indoor temperature sensor (A, B, and/or C).

The temperature at each remote sensor can be displayed by pressing the light button twice within one second with the thermostat in program run or hold mode. Temperatures at the outdoor and indoor remote sensors will be displayed with subsequent presses of the light button in the following order (if connected): outdoor sensor, sensor L, A, B, C.

When operating with remote sensor(s), the thermostat will calculate an average of the sensed temperatures in all enabled sensor locations (A, B, C and/or L), then display the average temperature as the room temperature. During programming, you can also assign each sensor different priorities during different program periods. This allows the system to maintain a comfortable environment by giving higher priority to occupied locations. At the same time, efficient system operation is enhanced by giving lower priority to unoccupied locations.

EXAMPLE: Your location has the thermostat in the office area and a remote sensor in an assembly area. The office has people working only during the day shift, but the assembly area has a day shift and night shift. During the day, you want the office area to be more comfortable so you give the sensor in that area (the thermostat) a HI priority during the OCCU period.

On the night shift, the office area is vacant, but people are working in the assembly area. You give the sensor in that area a HI priority for the UNOC period.

In the OCCU period, the office area sensor will have more importance, so the system will operate to keep the temperature at the setpoint in that area. In the UNOC period, the assembly area sensor will have the higher priority, so that area will be kept at the setpoint temperature.

To assign priority to a sensor, press **PROGRAM VIEW** and **ADV**. to select the period, then press the **VACATION** key. On the display in place of **OCCU** or **UNOC** the priority of the sensor and the sensor identification will appear. Press the **VACATION** key to step through the sensors that are installed and enabled L (local), **A**, **B** or **C**. Only sensors that are installed and enabled will be listed. When the sensor you wish to change is displayed, press the **DAYLIGHT SAVING TIME** key to change the priority (**AVG**, **H**I or

Features

LO). **AVG** is the default setting. A setting of **HI** gives a sensor more importance and a setting of **LO** gives less importance.

Daylight Savings Time Button.

One button adjustment allows you to change your thermostat clock between Standard Time and Daylight Savings Time. Simply push the **DAYLIGHT SAVINGS TIME** key to advance the time forward one hour in the Spring. In the Fall press the **DAYLIGHT SAVINGS TIME** key twice to fall back an hour. If you push it three times in a row (in less than 30 seconds) it will return to the original time setting. After clock adjustment, press **PRO-GRAM** (NN) to resume your normal program.

Large Lighted Liquid Crystal Display (LCD).

The large numbers and letters on your LCD screen make it easy to see. In low light conditions, press the button on top of the thermostat and the display will light up for three seconds. For ten minutes after pressing the light button, pressing any other button will light the display for ten seconds.

The thermostat display alternately shows the current time and the current temperature on the left side. The display also shows the temperature you have programmed or set on the right side of your screen.

Arm Chair Programming.

The thermostat uses 24 VAC power supplied by the system for normal operation. The electrolytic capacitor allows you the added convenience of programming the thermostat even when not attached to the wallplate, Attach the thermostat to the wallplate and allow the capacitor to charge for at least one hour. After the capacitor is charged you will have approximately one hour after removing the thermostat from the wallplate to configure and program the thermostat.

Thermostat Startup After Total Power Loss.

On installation, or when power is restored after a total power loss to the thermostat, your thermostat will automatically maintain a heating temperature of $62^{\circ}F(16^{\circ}C)$ and a cooling temperature of $85^{\circ}F(29^{\circ}C)$.

If the 24 volts from the Heating/ Cooling transformer is lost, your thermostat will lose its display in 2 minutes and may lose time in about 6 hours. This hold up time will be much shorter if the control had not been powered for at least 4 hours prior to the power outage. When power is restored, the thermostat will return to the temperatures listed above.

If this happens, set the clock and day of the week (use PROGRAMMING steps 1 through 6 from "Entering Your Program" page 7), then select HEAT, EMER, COOL or AUTO using the SYSTEM key, and press PROGRAM RUN to resume operation with your previously set program.

INDEX

Activate RUN PRG by Telephone 13
Adjustable Temperature Display 11
Air Filter Change-out Indicator 14
Arm Chair Programming 18
Automatic Changeover 13
Auxiliary Run Time 13
Beeper ON 11
COMPONENTS 2
Thermostat Buttons 2
Display 3
Compressor Run Time 13
Compressor Short-Cycle
Protection 13
CONFIGURATION 4
User Menu Table 5
Keypad Lockout Menu Table 5
Cool Fast 12
Daylight Savings Time Button 17
Daylight Savings Time Button 17 Energy Management Recovery 11
Energy Management Recovery 11

Factory Preprogrammed14
Fahrenheit or Celsius Temperature
Display 12
FEATURES
Configuration Menu 11
Traditional 13
Heat Fast 12
Indefinite Program Hold 16
INTRODUCTION 1
Keypad Lockout 13
Liquid Crystal Display 18
Operation
Manual 7
Programmed 7
Outdoor Temperature Sense 12
Program
Entering Your 7
Planning Your 7
Temporary Override 15
PROGRAMMING 7
Remote Temperature Sense 16

Schedule
Sample Program 9
Personal Program 10
Set
Clock 7
Day 7
Program 7
System and Thermostat Diagnosis 14
Temporary Program Override 15
Thermostat Startup After Total
Power Loss 18
Vacation 16

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Optional Accessories

Beige Metal Thermostat Guard F29-0192 Opaque Plastic Thermostat Guard F29-0232

Comfort-Set"

PREMI

Outdoor Remote Sensor

F145-1378

90 Series

U M

Remote Sensor F145-1328 Clear Plastic Thermostat Guard F29-0231 Mounting Plate F61-2300 If you need further information on programming or operation, contact us at:



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