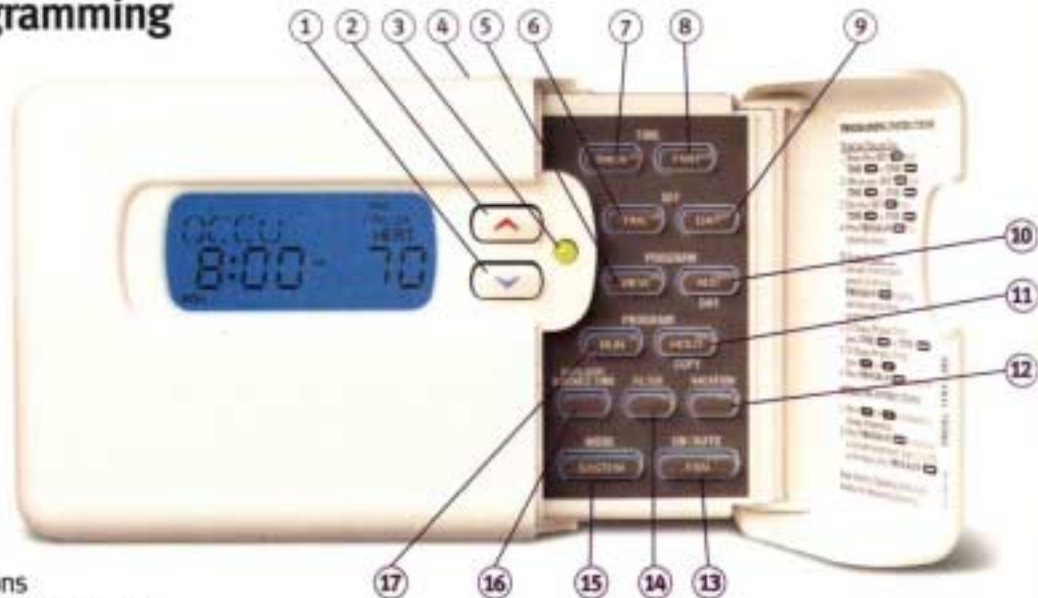Comfort-Set®

90 Series™
PREMIUM

Operating Instructions
1F93-380
Retain for Future Use

⚬ WHITE-RODGERS

Easy, Menu-Driven Set- Up and Programming

Premium options
to customize the thermostat
to fit your application.

INTRODUCTION

Thank you for purchasing your new Comfort-Set® 90 Series thermostat. Your new White-Rodgers Thermostat uses solid state micro-computer 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.

ORIENTATION

THE THERMOSTAT BUTTONS
See inside front cover for illustration showing button locations.

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

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

❸ 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.

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

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

❻ Used with **TIME** FWD /**TIME** BACK to set the clock.

❼ Used to adjust the time backward, or to select the previous menu item.

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

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

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

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

⓬ Used to enter and configure the VACATION mode.

⓭ Selects fan operation (see The Display **㉑**). This button is also used to program the fan to run continuously during a program period.

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

⓯ Sets the system mode (**HEAT**ing, **EMER**gency, **OFF**, **COOL**ing, or **AUTO**matic changeover).

⓰ Used to adjust the clock one hour forward or back.

⓱ Used to start or return to program operation.

THE DISPLAY

18 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.).

19 **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.

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

21 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.

23 Alternately displays room temperature and time of day.

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

25 The word **HEAT** or **COOL** will appear above or below the setpoint if area **18** is needed to display other information.
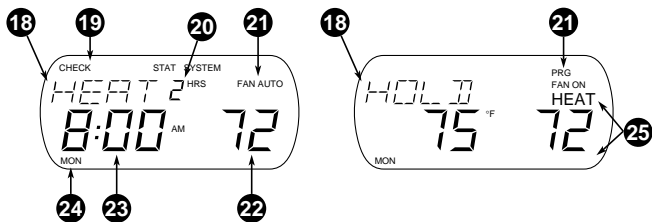

Figure 1. The Display

3

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**

`BACK` for at least two seconds.

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.

User Menu

Step	Press Button(s)	Displayed (Factory Default)	Press ⌃ or ⌄ 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 ⌄ 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** VIEW 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** VIEW 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

7

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 **∨** key to adjust the temperature to match your schedule. If you want the fan ON continuously during this period, press **FAN**.

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)

	❶				❷			
	❸	❹	❺	❻	❸	❹	❺	❻
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

❶ Occupied (OCCU)

❷ Unoccupied (UNOC)

❸ Start Time

❹ Heating Temperature

❺ Cooling Temperature

❻ Program Fan

Personal Program Schedule

	❶ Occupied (OCCU)				❷ Unoccupied (UNOC)			
	❸	❹	❺	❻	❸	❹	❺	❻
MON								
TUE								
WED								
THU								
FRI								
SAT								
SUN								

❶ Occupied (OCCU)

❷ Unoccupied (UNOC)

❸ Start Time

❹ Heating Temperature

❺ Cooling Temperature

❻ Program Fan

10

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 CONFIGURATION 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).

11

Features

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 ⋁ 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. 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

13

Features

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.

14

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 require-ments.

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 `⌄` 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**. If you need to, you can adjust the temperature up or down.

Features

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

Features

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** RUN 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°F (16°C) and a cooling temperature of 85°F (29°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

37-6065C

Optional Accessories

Beige Metal Thermostat Guard
F29-0192

Opaque Plastic Thermostat Guard
F29-0232

Outdoor Remote Sensor
F145-1378

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:

⚫ WHITE-RODGERS ▣

37-6065 C