Your new electronic digital thermostat has been designed to provide accurate control and display of room temperature. In addition, it also will display all relevant information pertaining to your system. The clearly marked buttons and informative display make it extremely easy to understand and simple to use.

Please take a few moments to read the brief instructions and familiarize yourself with the various functions in order to obtain maximum benefit from this truly unique electronic control.

GENERAL INFORMATION

The thermostat normally displays room temperature, mode of operation and whether cooling or heating is currently on. The six buttons on the front of the unit allow complete control of your equipment. You may select different heating and cooling setpoints for the system to maintain, e.g., 70° in heating and 75° in cooling. Raising or lowering the setpoints in heating or cooling is as simple as pushing a button. In addition, you may choose to display the temperature in °F or °C.

The thermostat also allows you to select continuous fan operation (useful when using an air cleaner) or have the fan come on with the equipment.

REMOTE SENSOR (OPTION)

RS1 – RS2 – RSv

The thermostat is designed to accept the electronic remote sensor, which will allow you to locate your thermostat in an area away from view, indoor and outdoor sensors are available separately.

CLOCK TERMINALS (OPTION) CLK1 – CLK2

Your thermostat is equipped with a dry contact closure input. By connecting to any relay-based controller or clock timer, the thermostat can be alternated between the day and night (setback) temperature setpoints automatically.

Upon initial power up of the thermostat, or after a power failure, the thermostat will check the clock terminals and apply the day (open contact) or night (closed contact) temperature setpoints accordingly.

ECONOMY / COMFORT

During operation, the thermostat automatically calculates the amount of time required to reach the desired setpoint based on the current trending rate of the temperature.

In the economy mode (switch #5 OFF), the thermostat will turn the compressor off with a call for auxiliary heat. When the switch is set to normal, the thermostat will allow the compressor and the auxiliary heat to be on at the same time.

POWER FAILURES

Your thermostat employs the latest in solid state electronic technology. One of the unique features of your thermostat is that no battery is required to maintain your selected setpoints in the event of a power loss as the memory is unaffected by power failure.

When power is restored, the thermostat will continue operating as if the power had never been off.

USER CONTROLS

MODE – Select the desired mode of operation by repeatedly pressing the MODE button:

° – indicates cooling system only (the word COOL is displayed for 5 seconds)

° – indicates heating system only (the word HEAT is displayed for 5 seconds)

° ° – indicates both the heat and cool systems (the word AUTO is displayed for 5 seconds)

Blinking – indicates cool ON

Flickering – indicates heat ON

OFF – disables controller so equipment will not operate (fan operation is still possible in this mode)

Eht – Emergency heat

COOLING °

Select the temperature you want your equipment to maintain while in the cooling mode by pressing and holding the ° or ° button. The control setpoint temperature is displayed for 5 seconds.

HEATING °

Select the temperature you want your equipment to maintain while in the heating mode by pressing and holding the ° or ° button. The control setpoint temperature is displayed for 5 seconds.

OUTDOOR (ODT) BUTTON

When the outdoor temperature sensor is connected to your thermostat, you can display the current outdoor temperature by pressing the OUTDOOR button. If the sensor is not connected, the thermostat will display ° ° °.

DAY/NIGHT BUTTON

When the thermostat is initially installed, the display will show ° symbol for your day temperature. By pressing the DAY/NIGHT button you may select an alternate or night temperature ° (the thermostat will remember this setpoint). Simply press the DAY/NIGHT button to alternate between day temperatures.

CELSIUS / FAHRENHEIT

Simultaneously press ° and ° to switch between Celsius (°C) and Fahrenheit (°F) temperature display.

COMMUNICATIONS (OPTION) X1 – X2

The thermostat is designed to accept any of the Net/IT family of remote communications controllers (available separately). The controllers allow full functionality and control from a distance of up to 1000 feet away.

ADD-ON HEAT PUMPS

Your thermostat is equipped to enhance the performance of an add-on heat pump. In most applications, the thermostat will perform the function of a thermostat.

To select add-on, place switch #1 to the ON position. The thermostat will turn the compressor off with a call for auxiliary heat. When the switch is set to normal, the thermostat will allow the compressor and the auxiliary heat to be on at the same time.

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Removing the Thermostat from the Subbase

1. Insert a flat blade screwdriver or coin 1/8" into the slot located in the bottom center of the thermostat case and twist 1/4 turn. When you feel a click, grasp the case from the bottom corners and separate it from the subbase.

2. Swinging the thermostat from the bottom.

3. Lift the thermostat up and off the subbase.

4. Place the rectangular opening in the subbase over the equipment control wires protruding from the wall, and, using the subbase as a template, make the location of the two mounting holes (exact vertical mounting is necessary for appearance).

5. Use the supplied anchors and screws for mounting on drywall or plaster; drill two 3/16" (5mm) diameter holes at the marked locations; use a hammer to tap the nylon anchors in flush to the wall surface and fasten subbase using the supplied screws. (Do not overtighten)

6. Connect the wires from your system to the thermostat terminals. Carefully dress the wires so that any excess is pushed back into the wall cavity or junction box. Ensure that the wires are flush to the plastic subbase. The access hole should be sealed or stuffed to prevent drafts from affecting the thermostat.

Replacing the Thermostat on the Subbase

1. Position the thermostat on the hinged tabs at the top of the subbase.

2. Gently swing the thermostat down and press on the bottom center until it snaps into place.

Thermostat Cover Lock

Insert the plastic lock piece into the bottom of the mounted base. The ends of the lock piece fit snugly under the lock pins extending from the bottom of the mounted base. The tab in the middle of the lock piece extends down from the base.

Conveniently, the lock mechanism, pressing the lock piece up and into the base while gently prying open.

Thermostat Mounting Instructions

When placing the front cover on the thermostat ensure the thermostate is not bent or misaligned. Ensure that the thermostat does not touch the thermostat case. The thermostat should be placed horizontally to the wall. Ensure the thermostat is not pushed into the case.

The thermostat should be aligned so it is visible between the ribs on the bottom of the subbase.

LED #2 + Indication

...........X1 return, connected to 24V (c)

X2

...........Remote communications. Refer to the instructions included with the remote communications adapter and software.

X3

...........Use to connect up to 6 (XC-IDS) indoor and/or 1 (XC-ODT) outdoor remote sensor/s.

X4

............Use to connect up to 6 (XC-ODS) indoor or/and 1 (XC-ODT) outdoor remote sensor/s.

X5

...........Use with a call for heating or cooling

X6

...........Fan operates with a call for heating or cooling or by pressing the FAN button.

X7

...........Power from equipment

X8

...........Compressor is energized and set to OFF when the keypad is locked.

X9

...........Compressor is energized and set to OFF when the keypad is unlocked.

X10

...........Power from equipment

X11

...........Auxiliary heat is energized as back-up or emergency heat

X12

...........Compressor is energized with a call for heating or cooling

X13

...........Free lights for status or function indication.

X14

...........Energizes the reversing valve continuously in cool mode

X15

...........Energizes the reversing valve continuously in heat or off modes

X16

...........Use to connect up to 6 (XC-IDS) indoor or/and 1 (XC-ODT) outdoor remote sensor/s.

X17

...........Use with a call for heating or cooling

X18

...........Fan operates with a call for heating or cooling or by pressing the FAN button.

X19

...........Power from equipment

X20

...........Auxiliary heat is energized as back-up or emergency heat

X21

...........Compressor is energized with a call for heating or cooling

X22

...........Free lights for status or function indication.

X23

...........Energizes the reversing valve continuously in cool mode

X24

...........Energizes the reversing valve continuously in heat or off modes

X25

...........Use to connect up to 6 (XC-IDS) indoor or/and 1 (XC-ODT) outdoor remote sensor/s.

X26

...........Use with a call for heating or cooling

X27

...........Fan operates with a call for heating or cooling or by pressing the FAN button.

X28

...........Power from equipment

X29

...........Auxiliary heat is energized as back-up or emergency heat

X30

...........Compressor is energized with a call for heating or cooling

X31

...........Free lights for status or function indication.

X32

...........Energizes the reversing valve continuously in cool mode

X33

...........Energizes the reversing valve continuously in heat or off modes