

EMRT2

Energy Management Wired Thermostat with an Occupancy Sensor



INSTRUCTION MANUAL

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Table of Contents

Introduction	5
Before You Begin	a
•	
Programming a Thermostat with a Network Programmer	
Thermostat Installation	8
Thermostat Configuration	
Setting the thermostat clock	
Entering the room number	
Configuring the Equipment Settings - Compressor Type	
Configuring the Equipment Settings - Electric Heat	
Configuring the Equipment Settings - Reversing Valve	
Configuring the Energy Saving Settings	
Testing the thermostat	
Accessing the Thermostat Settings	
Contain Francis Continue Collina	4-
Custom Energy Savings Settings	
Using the Thermostat Settings Screens	
01 – FAN CONTROL MODE 02 – 1 ST STAGE DIFFERENTIAL - HEAT	
03 – 2 ND STAGE DIFFERENTIAL - HEAT	
04 – 1ST STAGE DIFFERENTIAL - COOL	
05 – INCIDENTAL OCCUPANCY THRESHOLD	
06 - NIGHT OCCUPANCY THRESHOLD	
07 – FORCED 2ND STAGE HEATING	
08 – NIGHT OCCUPANCY START	
09 – NIGHT OCCUPANCY END	
10 – TEMPERATURE RECOVERY TIME	
11 – RECOVERY TEMPERATURE - HEAT	
12 – TEMPERATURE SETBACK DELAY - HEAT	
13 – MINIMUM SETBACK TEMPERATURE	
14 – TEMPERATURE SETBACK DELAY - COOL	
15 – MAXIMUM SETBACK TEMPERATURE	
16 – RECOVERY TEMPERATURE - COOL	
17 – MINIMUM SET POINT	

Table of Contents

18 – MAXIMUM SET POINT	36
19 - TEMPERATURE CONTROL MODE	37
20 - AUTO CHANGEOVER SET POINT OFFSET	38
21 - SETBACK SET POINTS / AUTO-RESTORE	39
22 - AUTOMATIC HUMIDITY CONTROL [†]	40
22 - TEMPERATURE CALIBRATION	41
Troubleshooting	42
Error Codes	42
APPENDIX 1 - Energy Saving Presets	44
APPENDIX 2 - Glossary	45
Warranty Information	46
Technical Specifications	48

Introduction

Friedrich EMRT2 Energy Management Thermostats for the hospitality industry deliver unprecedented energy savings without compromising guest comfort.

An integrated occupancy sensor uses a combination of motion and thermal sensing technologies for accurate occupancy detection. Reliable occupancy detection allows for energy savings when rooms are unoccupied.

Energy saving presets eliminate the guesswork and make it easy to adjust the energy saving settings. (Patent Pending)

Fully configurable energy saving settings allow for customization of the thermostat energy saving settings to fit any situation.

Comprehensive configuration options ensure full compatibility with virtually any existing or emerging hospitality HVAC system with up to 2 heat and 1 cool stages.

Built-in wireless mesh-networking enables optional online management.

For installation of a networking thermostat with online management, refer to the "Network Installation" manual

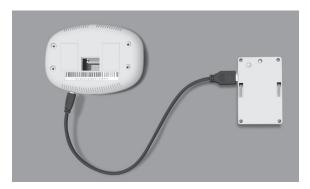
Before You Begin

- Determine the appropriate installation location for the thermostat. The thermostat should face the bed area of the room.
- Set the PTAC/Vert-I-Pak unit to "External Thermostat" (Class 2) mode.
 Consult the PTAC/Vert-I-Pak unit documentation to determine how to set the PTAC/Vert-I-Pak unit to "External Thermostat" mode.

Before You Begin

Programming a Thermostat with a Network Programmer

In case of Network Installation with Online management, the thermostat must be programmed with a Network Programmer specific to the property before the installation



The thermostat must not be powered during the pairing procedure.

- □ Plug one programmer connector into the thermostat;
- Push the black button on the programmer. The red light on the programmer should turn on and remain steadily lit;

If the red light on the programmer is blinking or is not steadily lit, unplug the programmer from the thermostat and repeat the steps above.

Unplug the programmer from the thermostat;

Thermostat Installation

Set the PTAC unit to "External Thermostat" (Class 2) mode.

Mounting the thermostat to the wall

- Unplug the PTAC/Vert-I-Pak unit;
 - Remove the thermostat cover;
- Connect the thermostat wires to the supplied Wiring Connector refer to the Wiring Table to determine proper connections;
- Plug in the wiring connector into to the thermostat;
- Use the supplied wall anchors and mounting screws to secure the thermostat to the wall:
 - Follow the "Thermostat Configuration" instructions;
- Replace the thermostat cover and screw in the locking screw;
- Plug in the PTAC/Vert-I-Pak unit.

Wiring Table - 24V AC

Wire Color	Terminal Letter	Terminal Connection
Black	С	Common
Red	R	24V
Yellow	Υ	Compressor
White	W	Heat
Orange	O or B	Reverse Valve
Green	GH	Fan High
Purple	GL	Fan Low

Wiring Table - 24V DC

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Terminal Letter	Terminal Connection			
R	24V			
С	Common			
Υ	Compressor			
W	Heat			
O or B	Reverse Valve			
GH	Fan High			
GL	Fan Low			
	Terminal Letter R C Y W O or B			

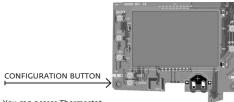
NOTE: If the PTAC/Vert-I-Pak unit has only one (1) fan speed, connect both fan control wires – Green and Purple – to the fan terminal (G).

Once the thermostat is powered, thermostat configuration settings will appear on the thermostat screen

In order to properly operate the PTAC/Vert-I-Pak unit:

- Set the thermostat clock;
- Enter the room number;
- Configure the equipment settings;
- Select Energy Savings Preset;

The thermostat configuration screens have a 3-minute time-out. If no action is taken within three (3) minutes, the thermostat will exit configuration settings.



NOTE: You can access Thermostat Configuration settings at any time by pressing the "Configuration" button.

Setting the thermostat clock



Set the thermostat clock to current time in 24h (Military Time) format.

- ☐ Use the "Up" and "Down" buttons to set the hours;
- Press the "Fan" button to advance to the minutes setting;
- ☐ Use the "Up" an "Down" buttons to set the minutes;
- Press the "F/C" button to advance to the next menu:

Setting the clock correctly is crucial for proper operation of the thermostat.

Entering the room number



Enter the room number by changing the digits on the screen. Leading zeros "0" preceding other digits will be ignored, i.e. Room number "123" should be entered as "00123".

- Use the "Up" and "Down" buttons to change the digit;
- Press the "Fan" button advance to the next digit;
- Press the "F/C" button to advance to the next menu;

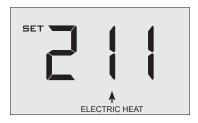
Entering the room number correctly is crucial for proper operation of remotely managed thermostats.

Configuring the Equipment Settings - Compressor Type



- Use the "Up" and "Down" buttons to change the compressor type by changing the first digit;
- 0 No Compressor
- 1 Heat Pump
- 2 * Air Conditioner
- Press the "Fan" button to advance to the next setting;
- * Indicates default setting;

Configuring the Equipment Settings - Electric Heat



- Use the "Up" and "Down" buttons to change the Electric Heat setting by changing the second digit;
- 0 No Electric Heat
- 1 * Electric Heat
- Press the "Fan" button to advance to the next setting;
- * Indicates default setting;

Configuring the Equipment Settings - Reversing Valve



- Use the "Up" and "Down" buttons to change the Reversing Valve setting by changing the third digit;
- OB contact is energized to cool;
- 1 * OB contact is energized to heat;

Refer to the PTAC unit documentation to determine the correct OB VALVE setting.

If incorrect OB VALVE Setting is selected, the PTAC unit will turn on the heating when air conditioning is requested and turn on the air conditioning when heating is requested;

- Press the "Fan" button to advance to the next setting;
- □ Press the "F/C" button to advance to the next menu;
- * Indicates default setting;

Configuring the Energy Saving Settings



- □ Use the "Up" and "Down" buttons to select the Energy Saving preset:
- E-0* Energy Savings Off No Temperature Setback;
- E-1 Lowest Energy Savings:
- E-2 Lower Energy Savings;
- E-3 Standard Energy Savings;
- E-4 Higher Energy Savings;
- E-5 Highest Energy Savings:

Refer to the APPENDIX 1 for Energy Saving Preset details.

E-C Indicates "Custom Energy Savings Settings" in case the active thermostat savings settings differ from any Energy Saving preset;

For details, refer to the "Custom Energy Savings Settings" section;

- Press the "Power" button to save the Thermostat Configuration and start using the thermostat;
- * Indicates default setting;

Testing the thermostat

Following the thermostat configuration, test if the thermostat is controlling the PTAC unit.

Press the "Power" button to turn the thermostat ON;

Press the "Up" and "Down" buttons to change the temperature set point above and below the current room temperature to test if the thermostat in the pressure and society the DTAC unit about the pressure and society.

above and below the current room temperature to test if the thermostat initiates heating and cooling - the PTAC unit should turn heating and air conditioning on and off.

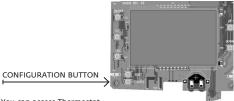
Change the fan speed by touching the "Fan" button to test if the thermostat is controlling the fan speed.

If you don't want to use the one of the energy saving presets listed on page 17 and detailed in the Appendix 1, you can enter the custom energy savings settings.

Accessing the Thermostat Settings

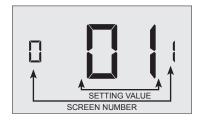
 Press and hold the "Configuration" button until the first thermostat settings screen appears.

The thermostat must be turned on to access the thermostat settings.



NOTE: You can access Thermostat Configuration settings at any time by pressing the "Configuration" button.

Using the Thermostat Settings Screens



- Use the "Up" and "Down" buttons to change the setting;
- □ Press the "F/C" button to advance to the next setting;
- Press the "Fan" button to return to the previous setting;
- Press the "Power" button to save and exit thermostat settings;

01 - FAN CONTROL MODE



Select Fan Control Mode:

MANUAL - guest can select automatic or continuous fan mode;

01 * AUTOMATIC - fan runs only when there is a demand for heating or air conditioning;

* Indicates default setting;

02 - 1ST STAGE DIFFERENTIAL - HEAT



02-30 (0.2°F - 3.0°F; 0.5°F* default setting) Select the number of degrees the thermostat has to sense between the automatic changeover temperature for heat and the room temperature before a call for the 1st stage heating is initiated.

03 - 2ND STAGE DIFFERENTIAL - HEAT



10-20 (1.0°F - 2.0°F*; 2.0°F* default setting) Select the difference between 1st stage heating and 2nd stage heating initiation.

04 - 1ST STAGE DIFFERENTIAL - COOL



02-30 (0.2°F - 3.0°F; 0.5°F* default setting) Select the number of degrees the thermostat has to sense between the automatic changeover temperature for cool and the room temperature before a call for the 1st stage cooling is initiated.

05 - INCIDENTAL OCCUPANCY THRESHOLD



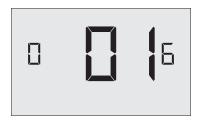
00-60 (05* default setting) Select the minimum period of time (in minutes) for which occupancy needs to be detected to enter the guest occupancy mode.

When occupancy is detected, thermostat will switch to occupied mode for a duration of "Incidental Occupancy Threshold" selected here.

If occupancy is detected for a period of time shorter than the "Incidental Occupancy Threshold" selected here, the thermostat will automatically revert to unoccupied mode at the end of the "Incidental Occupancy Threshold" period and continue to observe energy saving functions that were in effect before the room became occupied. This setting allows ignoring incidental room visits.

If occupancy is detected for a period of time longer than the "Incidental Occupancy Threshold" selected here, the thermostat will enter the guest occupancy mode. When the thermostat is in the guest occupancy mode, it will revert to unoccupied mode and initiate the setback temperature only when occupancy is not detected for the duration of the setback delay (Heat or Cool) period.

06 - NIGHT OCCUPANCY THRESHOLD



00-60 (01* default setting) Select the minimum period of time (in minutes) for which occupancy needs to be detected in order to consider the room occupied during the "Night Occupancy" period.

When occupancy is detected during the "Night Occupancy Period" for longer than the "Night Occupancy Threshold" selected here, the thermostat will instantaneously switch to occupied mode.

If occupancy is detected for a period of time shorter than the "Night Occupancy Threshold" selected here, the thermostat will automatically revert to unoccupied mode and continue to observe energy saving functions that were in effect before the room became occupied.

If occupancy is detected for a period of time longer than the "Night Occupancy Threshold" selected here, the thermostat will disable the occupancy sensor and consider the room occupied until the end of the "Night Occupancy" period.

This feature ensures that energy saving functions that may affect guest comfort will not come in effect during the "Night Occupancy" period.

07 - FORCED 2ND STAGE HEATING



00-60 (30* default setting) Select a number of minutes 1st stage heating will run before 2nd stage heating is automatically initiated if the guest set point is not reached and the 2nd stage heating is not initiated through differential settings.

This feature allows automatically turning on 2nd stage heating to avoid excessive compressor use.

Set to 00 to disable the feature.

08 - NIGHT OCCUPANCY START



00-23 (21* default setting) Select the start time (in hours - 24-hour clock) for "Night Occupancy"

If occupancy is detected for a period of time longer than the "Night Occupancy Threshold" during "Night Occupancy" period, the thermostat will disable the occupancy sensor and consider the room occupied until the end of the "Night Occupancy" period.

This feature ensures that energy saving functions that may affect guest comfort will not come in effect during the "Night Occupancy" period if room was occupied for a period of time longer than "Night Occupancy Threshold".

09 - NIGHT OCCUPANCY END



 $00\mbox{-}23 \mbox{ (09$^* default setting) Select the time (in hours - 24-hour clock) for "Night Occupancy" to end.}$

The time of day the "Night Occupancy" ends and the thermostat switches back to the room sensing settings chosen in the other occupancy modes.

10 - TEMPERATURE RECOVERY TIME



00-60 (25* default setting) Select the maximum time allowed for a PTAC unit to attain temperature as defined by Heat and Cool "Recovery Temperature":

"Temperature Recovery Time" selected here and the actual temperature recovery ability of the PTAC unit are used to calculate setback temperatures. Calculated setback temperatures maximize energy savings and at the same time ensure that a comfortable room temperature (defined as Heat and Cool "Recovery Temperature") will be restored within the selected "Temperature Recovery Time".

Setting the "Temperature Recovery Time" to "00", disables temperature recovery. When temperature recovery is disabled, thermostat will use the Minimum and Maximum Setback Temperatures as setback set points.

11 - RECOVERY TEMPERATURE - HEAT



62-82 (67°F* default setting) Select the room temperature in °F that a PTAC unit will have to attain within the selected "Temperature Recovery Time" when there is a need for heating.

12 - TEMPERATURE SETBACK DELAY - HEAT



00-120 (20* default setting) Select the time delay (in minutes) for which the room that is in the guest occupancy mode needs to be unoccupied before the temperature setback is initiated.

This feature prevents initiating temperature setback prematurely while the guest is still in the room but in an area where occupancy cannot be detected by the occupancy sensor.

Setting the "Temperature Setback Delay - Heat" to "00", disables the setback in the heat mode. Set to "00" to disable FMS

13 - MINIMUM SETBACK TEMPERATURE



52-72 (64°F* default setting) Select the "Minimum Setback Temperature" in °F.

Setback temperature is calculated by measuring PTAC unit's ability to attain "Recovery Temperature - Heat" within "Temperature Recovery Time"

If recovery is disabled ("Temperature Recovery Time" is set to "0") or if setback temperatures have not yet been calculated, the "Minimum Setback Temperature" value will be used as the setback temperature for heating.

If calculated setback temperature for heating is lower than "Minimum Setback Temperature", then the "Minimum Setback Temperature" will be used as setback temperature for heating.

This feature allows defining the minimum temperature in a room when room is unoccupied and the thermostat is in the setback mode.

14 - TEMPERATURE SETBACK DELAY - COOL



00-120 (20* default setting) Select the time delay (in minutes) for which the room that is in the guest occupancy mode needs to be unoccupied before the temperature setback is initiated.

This feature prevents initiating temperature setback prematurely while the guest is still in the room but in an area where occupancy cannot be detected by the occupancy sensor.

Setting the "Temperature Setback Delay - Cool" to "00", disables the setback in the cool mode. Set to "00" to disable EMS.

15 - MAXIMUM SETBACK TEMPERATURE



 $72 - 92 \atop \text{Temperature" in °F.}$

Setback temperature is calculated by measuring PTAC unit's ability to attain "Recovery Temperature - Cool" within "Temperature Recovery Time".

If recovery is disabled ("Temperature Recovery Time" is set to "0") or if setback temperatures have not yet been calculated, the "Maximum Setback Temperature" value will be used as the setback temperature for cooling.

If calculated setback temperature for air conditioning is higher than "Maximum Setback Temperature", then the "Maximum Setback Temperature" will be used as setback temperature for air conditioning.

This feature allows defining the maximum temperature in a room when room is unoccupied and the thermostat is in the setback mode.

16 - RECOVERY TEMPERATURE - COOL



 $62\text{-}82 \atop \text{(74°F* default setting) Select the room temperature in °F} \atop \text{that a PTAC unit will have to attain within the selected "Temperature Recovery Time" when there is a need for air conditioning.}$

17 - MINIMUM SET POINT



64-84 (66°F* default setting) Select the minimum set point in °F that a guest can select.

18 - MAXIMUM SET POINT



60-82 (78°F* default setting) Select the maximum set point in °F that a guest can select.

19 - TEMPERATURE CONTROL MODE



Select Temperature Control Mode:

- MANUAL Allows users to select HEAT only or COOL only temperature control mode to maintain the room temperature;
- O1 * AUTOMATIC Thermostat automatically turns on heating or air conditioning to maintain the room temperature at the selected temperature set point;
- Indicates default setting;

20 - AUTO CHANGEOVER SET POINT OFFSET



00-04 (01°F* default setting) Select the difference between the guest-selected set point and the heat and the cool set point when the thermostat is in the automatic temperature control mode.

This value plus the 1st stage differential defined in steps 02 and 04, defines the temperature at which the thermostat would automatically change heating/cooling modes.

This feature allows adjusting the deadband between the heat and the cool set points in automatic changeover mode in order to avoid the system from bouncing back and forth between heating and cooling under normal operating conditions.

-

21 - SETBACK SET POINTS / AUTO-RESTORE



When room is unoccupied and the thermostat is in the setback mode or turned off, it will NOT maintain the temperature between heat and cool setback set points:

When guest enters the room, the thermostat will be turned off - it will not automatically restore the most recent guest settings;

When room is unoccupied and the thermostat is in the setback mode or turned off, it will maintain the temperature between heat and cool setback set points;

When guest enters the room, the thermostat will be turned off - it will not automatically restore the most recent guest settings;

When room is unoccupied and the thermostat is in the setback mode or turned off, it will NOT maintain the temperature between heat and cool setback set points:

When guest enters the room, the thermostat will automatically restore the most recent guest settings:

When room is unoccupied and the thermostat is in the setback mode or turned off, it will maintain the temperature between heat and cool setback set points;

When guest enters the room, the thermostat will automatically restore the most recent guest settings.

22 - AUTOMATIC HUMIDITY CONTROL[†]



00
Disable automatic humidity control;
Enable automatic humidity control;

When "Automatic Humidity Control" is enabled, thermostat will turn on air conditioning in an unoccupied room when humidity raises above 60% and room temperature is above 72°F until either room humidity is below 55% or room temperature is below 72°F;

- Indicates default setting;
- This setting is active only on thermostats with enabled humidity features. Changing this setting on a non-humidity thermostat will have no effect on thermostat operation.

Humidity features can be enabled on compatible thermostats via online management.

Certain models only. Additional fees apply.

23 - TEMPERATURE CALIBRATION



$$\text{-}5.0-5.0$$
 (0.0°F* default setting) Calibrate the temperature display : $_{\text{-}5.0^{\circ}\text{F}}$ - 5.0°F.

Troubleshooting

Error Codes

ERR 1 Thermostat Temperature Sensor Hardware Defect

ERR 2 Thermostat Radio Hardware Defect

ERR 3 Thermostat Radio Software Defect

ERR 5 Thermostat Memory Defect

APPENDIX 1 - Energy Saving Presets

SCREEN		Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
19	Temperature Control Mode	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
01	Fan Control Mode	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
17	Minimum Setpoint	64	64	65	66	67	68
18	Maximum Setpoint	82	82	80	78	76	74
20	Deadband	2	2	2	2	2	2
02	1st Stage Differential Heat	0.5	0.5	0.5	0.5	0.5	0.5
03	2nd Stage Differential Heat	1	1	1	2	2	2
04	1st Stage Differential Cool	0.5	0.5	0.5	0.5	0.5	0.5
07	Force 2nd Stage Heating After	30	30	30	30	30	30
10	Recovery Time	0	15	20	25	30	0
16	Recovery Temperature Cool	71	72	73	74	75	76
11	Recovery Temperature Heat	70	69	68	67	66	65
15	Maximum Setback Temperature	72	74	76	78	80	82
13	Minimum Setback Temperature	67	66	65	64	63	62
12	Setback Delay - Heat	0	30	25	20	15	10
14	Setback Delay - Cool	0	30	25	20	15	10
05	Guest Occupancy Threshold	0	5	5	5	5	5
06	Night Occupancy Threshold	1	1	1	1	1	1
80	Night Occupancy Start	18	19	20	21	22	23
09	Night Occupancy End	12	11	10	9	8	7
21	Auto Restore	OFF	ON	ON	ON	ON	ON
21	Setback Setpoints	OFF	ON	ON	ON	ON	ON
22	Automatic Humidity Control	ON	ON	ON	ON	ON	ON
23	Temperature Calibration	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2 - Glossary

"Automatic Fan Control Mode" - fan runs only when there is a demand for heating or cooling:

"Manual Fan Control Mode" - guest can select between automatic or continuous fan operation;

"Minimum Set point" - minimum temperature that a quest can request;

"Maximum Set point" - maximum temperature that a quest can request;

"Auto Changeover Set Point Offset" - the difference between the guest-selected set point and the heat and cool changeover temperatures;

"1st Stage Differential - Heat" - the amount of degrees the thermostat has to sense between the automatic changeover temperature for heat and the room temperature before a call for the 1st stage heating is initiated:

"2nd Stage Differential - Heat" - difference between 1st stage heating temperature and room temperature before the 2nd stage heating is initiated:

"1st Stage Differential - Cool" - the amount of degrees the thermostat has to sense between the automatic changeover temperature for cool and the room temperature before a call for the 1st stage cooling is initiated:

"Forced 2nd Stage Heating" - number of minutes 1st stage heating will run before 2nd stage heating is automatically initiated if the guest set point is not reached and the 2nd stage heating is not initiated through differential settlings

"Temperature Recovery Time" - the maximum period of time allowed for restoring the "Recovery Temperature";

"Recovery Temperature" - the room temperature that needs to be restored within the "Temperature Recovery Time":

"Maximum Setback Temperature" - the highest room temperature allowed when thermostat is in the setback mode:

"Minimum Setback Temperature" - the lowest room temperature allowed when thermostat is in the setback mode:

"Temperature Setback Delay" - the length of time for which the room that is in the guest occupancy mode needs to be unoccupied before the temperature setback is initiated:

"Incidental Occupancy Threshold" - the minimum period of time (in minutes) for which occupancy needs to

be detected in order to enter the "Guest Occupancy" mode:

"Night Occupancy Threshold" - the minimum period of time during the "Night Occupancy" period for which occupancy needs to be detected in order to enter the "Night Occupancy" mode:

"Night Occupancy Period" - The period of time during the day during which the "Night Occupancy" mode can be activated if occupancy longer than the "Night Occupancy Threshold" is detected;

"Auto Restore On" - thermostat will restore the most recent quest settings when new occupancy is detected:

"Auto Restore Off" - thermostat will NOT restore the most recent guest and will remain turned off settings when new occupancy is detected:

"Setback Set points On" - thermostat will maintain setback temperatures when room is unoccupied;

"Setback Set points Off" - thermostat will NOT maintain setback temperatures when room is unoccupied;

"Incidental Occupancy" - occupancy shorter than the "Incidental Occupancy Threshold";

"Guest Occupancy" - occupancy longer than the "Incidental Occupancy Threshold";

"Temperature Setback" - thermostat maintains setback temperatures and not the guest set point temperature in order to save energy:

"Night Occupancy Mode" - thermostat status during which setback mode is disabled if occupancy longer than "Night Occupancy Threshold" is detected within the "Nigh Occupancy" period;

"Automatic Temperature Changeover" - thermostat automatically activates heating or cooling to maintain the desired room temperature;

"External Thermostat" (Class 2) mode - PTAC unit setting allowing it to be controlled by a remote thermostat:

Technical Specifications

Thermostat

Case Dimensions (Imperial)	4.015 x 5.5118" x 0.925"			
Case Dimensions (Metric)	102mm x 140mm x 23.5mm			
Screen Dimensions (Imperial)	3.625" x 2.125"			
Screen Dimensions (Metric)	92mm x 54mm			
Operating Voltage	3V DC - 2 "AA" Cell Batteries			
Control Outputs				
Occupancy Sensor Beam Width	±47° (94°)			
Wireless Frequency	900MHz			
Temperature Accuracy	±1°F			
FCC ID	XEYWX			
IC	8410A-WX			



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.

PURSUANT TO PART 15.21 OF THE FCC RULES, ANY CHANGES OR MODIFICATIONS TO THIS EQUIPMENT NOT EXPRESSLY APPROVED BY VERDANT ENVIRONMENTAL TECHNOLOGIES, INC. MAY VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS. US PATENTS: 8,369,994; 8,141,791; 7,918,406; 7,232,075; 7,185,825; 7,156,318; 7,152,806; 7,145,110; 7,050,026; 7,029,912; 6,902,117; 6,789,739; 6,786,421; 6,619,555; 6,581,846; 6,578,770; 7,838,803; 7,841,542; D556,061; D518,744; RE40,437; CANADIAN PATENTS: 2,633,113: 2,633,200; OTHER PATENTS PENDING.



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