AT1 AMBI-TEC CONTROL PANEL

AMBIRAD
ENERGY EFFICIENT HEATING SYSTEMS

FEATURES

- 32 Character alphanumeric display.
- Optional "Optimum Start Facility" with automatic preheat adjustment.
- LED indication of burner failure.
- Selectable language - English, French, German, Italian and Dutch.
- Password protection against unauthorised changes.
- Inbuilt lithium battery for memory retention if power fails.
- Optional adjustable frost protection.
- Adjustable temperature differential.
- 0 - 5V output for GM44 modulation valves.

OPERATION

When power is first connected by the installer/user an "Initialisation Sequence" is first offered to allow changes to the default settings

INITIALISATION SEQUENCE

On first PowerUp the installer/user will be offered the following system default parameters to alter to their own requirements. THESE PARAMETERS ARE **NOT** MADE AVAILABLE TO THE USER WHEN THE SYSTEM IS UP AND RUNNING.

They can, however, be re-accessed by turning off the power to the system and then turning on again.
Note:
In the following catagories, "S.01" is the software version number and is displayed next to the word **"ADJUST".**

ADJUST S.01

ENGLISH   *Press "Select" to choose English*

ADJUST S.01

RESET   02   *Press "Select" for SCA, T-Series and ST-Series.*
                   For other heaters contact factory.

ADJUST S.01
PREHEAT MODE 02   *Choose 01 if the preheat time is to remain at the fixed time set for pre-heat. Choose 02 to allow the controller to "hold off" the preheat to take account actual ambient temperature. Press "Select" to enter*

ADJUST S.01
VENT MODE 02   *Choose 01 if the **VENT** Relay is temperature controlled. Choose 02 if the **VENT** relay is **ON** when in **VENT** mode. Press "Select" to enter set*

ADJUST S.01
GM44 DIFF T 02   *Set temperature (02˚C-04˚C) to achieve a full 5V swing on the output drive to a GM44 gas modulator. Press "Select" to enter.*

ADJUST S.01
HEAT-VENT T 06   *Set dead band temperature between 2 - 9˚C. Press "Select" to enter.*

ADJUST S.01
PASSWORD XXXX   *Password setting. (If required). Use the up and down arrow keys to select a number, use the left and right arrow keys to move to the next number. Press "Select" to enter.*

Once this sequence has been set up then the normal display is,

TOP ROW LED
Operating Mode (Heat/Vent/Auto/Off). Heat/Cool/At temperature pointer. Day set temperature. Day/Night indication pointer. Night Set Temperature. Frost Set Temperature.

BOTTOM ROW LED
Timer Mode(Clock/On1/Off1/On2/Off2/On3/Off3/On4/Off4/Preheat. Day of the week. Time.

TO MAKE ADJUSTMENTS
Press the **YELLOW** pushbutton marked "Select"
(If a password has been set you will now be asked to enter it before you can make alterations. Enter if necessary - see Passwords) then:
The mode will be flashing, use the **UP/DOWN** buttons to rotate to the required mode (OFF/HEAT/VENT/AUTO).
If other displayed items need adjustments use the **LEFT/RIGHT** buttons to move to the item needed and adjust with the **UP/DOWN** buttons.
If all adjustments have been completed then exit by pressing the "Select" button.

SETTING THE TIMERS AND PREHEAT TIME

Having entered the password. Press "Select" and use the **LEFT/RIGHT** cursor buttons to move to **"CLOCK"**.
Now use the **UP/DOWN** cursor buttons to move from time to **ON 1**, the display will be showing **ON 1** and a day of the week together with a time eg:

ON 1 MON 7.30

This is indicating that **ON1** timer for Monday is set at 7.30. Use the cursor buttons to set up to four **ON** and four **OFF** times for each day of the week. To assist, block setting Mon-Fri is also offered.
Note:
These are **NOT** extra timers, but a method of speeding the set up process by inserting the same time to several days.

SET THE ON AND OFF TIMES TO BE THE ACTUAL OCCUPATION TIMES OF THE BUILDING
Now set the preheat time to bring the heating on at an adequate time to ensure temperature has been reached.

DIRECT ACTING PUSH-BUTTONS

Two pushbuttons have direct operation without needing a password. These are:

a. Blue pushbutton marked with "Override". When pressed with the timer **ON** toggles **ON-OFF.** When pressed with the timer **OFF** selects DAY Mode for 30 minutes. Press again to cancel.

b. Red pushbutton marked with "Lockout". A flame failure is indicated by a flashing **RED LED** above the button. Pressing the **RED** reset button will initiate a burner reset.

PASSWORDS

A four digit password may be set and stored during the initialisation programme. This password will be requested whenever the **"Select"** button is pressed to allow adjustments to be made. When requested to give the password, use the four cursor arrows to enter the correct number, then press the **"Select"** button again. If the correct password has been entered the the mode will be flashing ready for adjustment.

SYSTEM DEFAULT/PASSWORD RESETS

The password can be cleared by holding down the left and right buttons on power up.

The original default settings can be reloaded by holding down the left, right and key buttons on power up.