Bridgepoint Systems

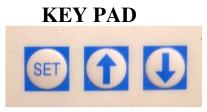# TES Exhaust Controller
Single Stage

Operator's Guide

Revised: 06/17/08

Single Stage Thermostat Exhaust Control

1) **Plug Module into wall outlet:**
   Male plug into wall outlet provides operating power to thermostat and fans. Bottom plastic stud provides stability.

2) **Plug fan cords into one or both of the cord outlets on the module:** Total amp draw from fans connected to both outlets cannot exceed 15amps.

3) **Secure temperature probe in desired location**:
   Temperature sensor can be located up to 8 feet away from module.

KEY PAD

Temperature Probe with 8 foot cord

Controlled Power Outlets

4) **Press SET:** The display will show the current TEMPERATURE MODE setting, either "C" for Celsius or "F" for Fahrenheit. Use the UP ARROW or DOWN ARROW key to switch to the desired mode.

5) **Press SET again:** The display will show the current SET POINT temperature. The "S1" symbol will be blinking on & off to indicate the display is in the SET POINT MODE. The SET POINT is the low temperature at which the outlets will turn off after the room has cooled. Use the UP ARROW or DOWN ARROW key to switch to the desired SET POINT temperature.

6) **Press SET again:** The display will show the current DIFFERENTIAL setting. The "DIF 1" symbol will be blinking on & off to indicate the display is in the DIFFERENTIAL mode. The DIFFERENTIAL is the temperature differential between the SET POINT and the temperature at which the outlets will turn on and turn on the fans to cool the room. Basically it sets the high temperature at which the outlets will turn on in the cooling mode. The SET POINT is the low temperature at which the outlets turn off. Use the UP ARROW or the DOWN ARROW to adjust the DIFFERENTIAL from 1 to 30 degrees. If the SET POINT is set at 74˚F and the DIFFERENTIAL is set at 5. The outlets will turn on at 79˚F and will turn off when the room temperature returns to 74˚F.

7) **Press SET again:** The display will show the current mode setting:
   It will show "C1" for COOLING MODE or "H1" for the HEATING MODE. Use the UP ARROW key or the DOWN ARROW key to display "C1" for the COOLING MODE.
   (Our normal use is in the cooling mode. In the heating mode the differential setting is below the set point, meaning that the outlets will turn on when the room temperature is

cooler than the set point by the number of degrees at which the differential is set. If the set point is 74˚F and the differential is set at 5. The outlets will turn on when the room temperature reaches 69˚F. The outlets will turn off when the room temperature returns to 74˚F.)

8) **Press SET again** to end programming. (If no keys are pressed for a period of thirty seconds the unit will automatically end programming and any settings entered up to that point will be accepted.)
   The display will show the current room temperature.
   Control will retain temperature settings even after power is disconnected.
   - Keypad can be disabled and control settings locked by and moving Lockout Switch to the LOCK position. To access Lockout Switch disconnect power and remover four cover screws and open thermostat controller. Lockout switch is located on the inside of the cover about two inches above the bottom. To enable the keypad for programming move the switch back to the UNLOCK position.

Troubleshooting Error Messages:

Display message	Description:
E1	Appears when the UPARROW or DOWN ARROW key is pressed when unit is not in the programming mode. **To correct:** Stop pressing arrow key and press SET key to move into programming mode. If this message appears when no keys are pressed, replace the controller.
E2	Appears if the control settings are not properly stored in memory. **To correct:** Check all settings and correct as needed.
EP	Appears when probe is open, shorted or sensing a temperature that is out of its range. (-20˚F to 140˚F) **To correct:** Check to see if temperature is out of range. If not, check probe for damage by comparing it to known ambient temperature in its range. Replace probe if needed.
EE	Appears if the EEPROM data has been corrupted. **To correct:** Replace the controller.
CL	Appears if calibration mode has been entered.

To correct: Disconnect controller from power outlet for at least 5 seconds. Plug control unit back into power outlet. If the **CL** message still appears, replace the controller.

HIGHER

OUTLET POWER - ON

DIFFERENTIAL

COOLING
MODE

SET POINT

OUTLET POWER - OFF

DIFFERENTIAL

HEATING
MODE

OUTLET POWER - ON

TEMPERATURE

LOWER

Cooling Mode: The high temperature at which the
outlets turn on is equal to the set point temperature
plus the differential setting.

Example:
Set Point = 90˚F
Differential = 10

The outlets will turn on at 100˚F and turn off when the
temperature drops below 90˚F.

Heating Mode: The high temperature at which the
outlets turn on is equal to the set point temperature
minus the differential setting.

Example:
Set Point = 90˚F
Differential = 10

The outlets will turn on at 80˚F and turn off when the
temperature rises above 90˚F.