CAT# THM-4 Instructions for settings

Displaying the current temperature

The thermostat will display the current temperature in °C by default. When in any other mode making no input for approximately 5 seconds will cause the thermostat to return to this default display.

Setting the trigger temperature

To set the trigger temperature press the button marked 'SET'. The 7-segment display will flash. You can now set a trigger temperature (in °C) using the '+' and '-' buttons in 0.1° increments. If no buttons are pressed for approximately 2 seconds the trigger temperature will be stored and the display will return back to the current temperature.

Setting the parameters

To set any parameter first long press the 'SET' button for at least 5 seconds. The 7-segment display should now display 'P0'. This represents parameter P0. Pressing the '+' or '-' buttons will cycle through the various parameters (P0 to P6). Pressing the 'SET' button while any of these parameters are displayed will allow you to change the value for that parameter using the '+' and '-' buttons. When finished setting a parameter press the set button to exit that option. If no buttons are pressed for approximately 5 seconds the thermostat will exit the parameter options and will return back to the default temperature display.

Setting the cooling or heating parameter P0

The parameter P0 has two settings, C and H. When setting to C (default) the relay will energize when the temperature is reached. Use this setting if connecting to an air-conditioning system. When set to H the relay will de-energize when the temperature is reached. Use this setting if controlling a heating device.

Setting the hysteresis parameter P1

This sets how much change in temperature must occur before the relay will change state. For example, if set to the default 2°C and the trigger temperature has been set to 25°C, it will not de-energize until the temperature falls back below 23°C. Setting this hysteresis helps stop the thermostat from continually triggering when the temperature drifts around the trip temperature.

Setting the upper limit of the thermostat parameter P2

This parameter limits the maximum trigger temperature that can be set. It can be used as a safety to stop an excessively high trigger temperature from accidentally being set by the user.

Setting the lower limit of the thermostat parameter P3

This parameter limits the minimum trigger temperature that can be set. It can be used as a safety to stop an excessively low trigger temperature from accidentally being set by the user.

Setting temperature offset correction parameter P4

Should you find there is a difference between the displayed temperature and the actual temperature (for instance, if the temperature probe is on a long run of cable) you can make minor corrections to the temperature reading with this parameter.

Setting the trigger delay parameter P5

This parameter allows for delaying switching of the relay when the trigger temperature has been reached. The parameter can be set in one-minute increments up to a maximum of 10 minutes.

Setting the high-temperature alarm parameter P6

Setting a value for this parameter will cause the relay to switch off when the temperature reaches this setting. The seven segment display will also show '—' to indicate an alarm condition. The relay will not re-energize until the temperature falls below this value. The default setting is OFF.

Settings Chart

Long press the "SET" button to activate the menu.

(SET THE VALUES AS MENTIONED IN BRACKET)

Code Description Range Default Value

P0 Heat C/H (C)

P1 Backlash Set 0.1-15 (2)

P2 Upper Limit 110 (110)

P3 Lower Limit -39 (-39)

P4 Correction -7.0 ~ (0)

P5 Delay Start Time 0-10 mins (0)

P6 High Temperature Alarm 0-110 (OFF)

Long pressing "+/-" will reset all values to their default