

## TEMPERATURE CONTROLLER 0-10VDC PROPORTIONAL + LOW LIMIT 1-2-3 STAGES

E13-PL..

Used to monitor the temperature inside buildings, rooms, ducts, tanks, pipes etc to give up to 3 x 0-10vdc output signal linear across the desired proportional band. Suitable to control damper motors, valve actuators, step controllers, relay modules and thyristors etc.  
Link selectable in various combinations. HTG only, HTG+CLG, HTG+HTG or HTG+CLG+CLG.



FOR USE WITH THE E10.. RANGE OF NTC SENSORS, REMOTE ADJUSTERS & DISPLAYS - SEE SEPARATE DATA SHEET.

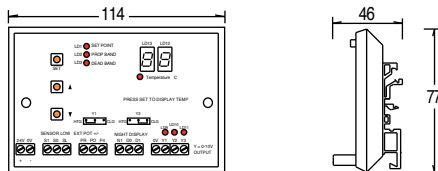
During LOW LIMIT conditions only heating output signal is produced. The cooling output is reset to constant 0vdc. The heating output is selected from the sensor which has the greatest demand.  
NORMAL control resumes when the supply air sensor detects a temperature above the low limit.

If HTG/CLG links are changed the unit must be reset by turning the power OFF and ON.  
Power Consumption 2VA

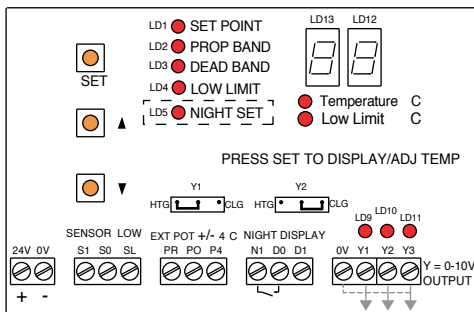
Type	Range °C	Prop Band °C	Dead Band °C	Low Limit Setting Range °C	Low Limit Prop Band °C	Supply ± 15%	Output Signal	Function	Mounting	Protection
<b>E13-PL1</b>	-10/+50	0/15	-	0-30	0/15	24VAC/DC	0-10vdc	Htg or Clg	Din Rail	IP00
<b>E13-PL2</b>	-10/+50	0/15	0/10	0-30	0/15	24VAC/DC	2 x 0-10vdc	Htg+Clg or Htg+Htg	Din Rail	IP00
<b>E13-PL3</b>	-10/+50	0/15	0/10	0-30	0/15	24VAC/DC	3 x 0-10vdc	Htg+Clg+Clg	Din Rail	IP00
<b>OPTIONAL</b>	N = Night Setting adj 0- 40 C Operational Via Time Switch									
<b>ACCESSORIES</b>	<b>EE-M2T</b>	Wall mounting enclosure 125H x 125W x 75D								IP65

The sensed temperature is indicated via the 2 digit display. The display remains on for approx 5 mins after any adjustments are made and then turns off. It is activated again by pressing the SET button. Pressing the UP button toggles the display between the CONTROL and LOW LIMIT sensors.

**DIMENSIONS:**



**WIRING:**



**OUTPUTS:**  
Use the links to select HTG or CLG output.  
HTG or CLG : Fit Link at Y1 accordingly  
HTG+CLG : Y1 is HTG Y2 is CLG.  
HTG+CLG+CLG : Y1 = HTG Y2+Y3 = CLG

**SETTINGS:**

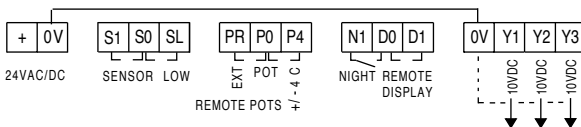
These are all of the possible settings, use only the parameters for your application. Pressing the ▲ ▼ buttons allows adjustment during any of the following stages. If HTG/CLG links are changed, the unit must be reset by turning the power Off and On.

- Press SET Button = Set Point LD1 Lights Adjust to desired setting.
- Press SET Button = Prop Band LD2+Y1 Light Adjust Prop Band for Y1 output.
- Press SET Button = Prop Band LD2+Y2 Light Adjust Prop Band for Y2 output.
- Press SET Button = Prop Band LD2+Y3 Light Adjust Prop Band for Y3 output.
- Press SET Button = Dead Band LD3+Y1+Y2 Light Adjust Dead Band between Y1 and Y2.
- Press SET Button = Dead Band LD3+Y2+Y3 Light Adjust Dead Band between Y2 and Y3.
- Press SET Button = LOW LIMIT LD4 Lights Adjust the Low Limit Setting.
- Press SET Button = LOW LIMIT LD4+LD2 Adjust the Low Limit Prop Band.

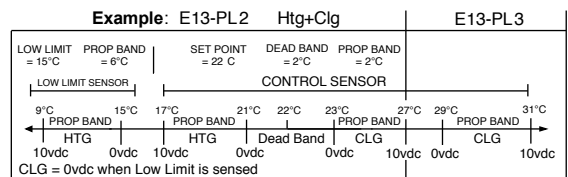
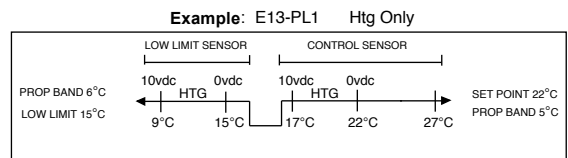
**OPTIONAL:**

Press SET Button = NIGHT SETTING LD5 Lights - Adjust Night Setting. Enabled upon contact closure on terminals N1 - D0  
During Night operation the cooling output remains at 0vdc.

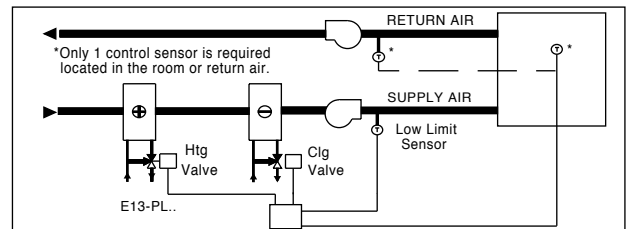
Pressing the SET Button again restarts the sequence. The unit returns to normal operation if left untouched for 15 seconds.



Override - Sensor terminals open: HTG 10vdc CLG 0vdc  
Override - Sensor terminals linked: HTG 0vdc CLG 10vdc



Prop Band and Dead Band are adjustable for each of the outputs on all models.



**INSTALLATION:**

Terminals 0.5 - 2.5mm Sensor cable size 7/0.2mm Max length 100m. Screened cable is recommended. Keep away from power cables/units which may cause interference. The screen should be earthed at the controller 0V terminal only.