THERMOLEC

CTH294 Room and Duct Type 2 stage High Temperature Range 2 position ON/OFF LCD Electronic Thermostat 24V

Mounting Location:

For room applications:

The thermostat is restricted to be used indoors only. It should be mounted where it is readily affected by changes of the general room temperature/humidity with freely circulating air.

For duct applications:

Use external sensor and install the thermostat in any location for your application.

Do not expose this unit to condensation.

Mounting Instruction:

1/.Remove Cover:

- Place the screwdriver at the bottom of the locks and loosen the screws (@ '1') & (@ '2')
- Remove the top cover carefully forward(@ '3') and then upward(@ '4 ')to loosen the top locks

2/.Mounting without bottom plate (Diagram 1):

- Ensure the surface is level
- Pull the cables through the hole near the terminal block
- Use wall anchors provided if necessary.
- Fasten the thermostat with 2 long screws through the 2 mounting holes

3/. Mounting with bottom plate (Diagram 2):

- Adjust the bottom plate on the wall or junction box and ensure the plate is at surface level and covers the junction box completely
- If necessary, pull the cables out of the middle hole of the bottom plate
- Use wall anchors provided if necessary
- Fasten the plate with 2 long screws
- Pull the cables through the hole near the terminal block
- Fasten the thermostat with 2 screws provided to the mounting plate

4/.Electrical Connection:

 Connect the cable to the terminal block according to the circuit diagram attached inside the top cover
 It is recommended to use a fuse or circuit protective device

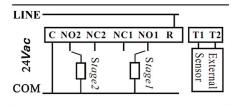
5/.Install the Cover:

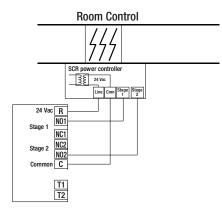
- Ensure the rubber key is firmly attached on the PCB (@ '5')
- Ensure rubber key fits through the opening of the cover (@ '6')
- Replace the cover in direction (@ '7') and ensure the top locks are fastened

- Press the cover in direction (@ '8') and fasten the cover with 2 screws (@ '9') &(@ '10')
- Check that the rubber keys can be moved smoothly, otherwise reinstall the cover and realign properly

6/. Temperature setting:

- Select the comfortable temperature by pressing or ▼ to the desirable temperature set point. The set point will flash after releasing the keys.
- The display of the room or duct temperature will return after 10 seconds
- Backlight will illuminate by pressing ▲or ▼ or △ it will return after 10 seconds once the keys are released





Discharge Air Control | Supply air temperature sensor | SCR power controller | Supply air temperature sensor | SCR power controller | Stage | 24 Vac | R | Stage | NOI | NCI | Stage | NOZ | NO

7/.Dip switch Selections:

Pole	OFF	ON	
1	°C	°F	
2	Internal sensor	External Sensor	
3	Limited set	Normal set point	
	point range	range	
4	Span selection		
5			
6	Switch Differential selection		
7			

Re-power the thermostat after changing the dipswitch settings

Stage1 Span selection (Relative to Setpoint)

Span	Pole 4	Pole 5
1°C	OFF	OFF
2°C	ON	OFF
4°C	OFF	ON
6°C	ON	ON

Stage 2 Differential selection

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Differential	Pole 6	Pole	
		7	
1°C	OFF	OFF	
2°C	ON	OFF	
4°C	OFF	ON	
6°C	ON	ON	

8/. Adjusting the Set point (Dip switch 3)

With dipswitch # 3 we can select a normal or limited temperature range. See tables below.

Normal set point range:

- 5.0 55.0°C (0.5°C resolution)
- 40 130°F (1° F resolution)

Limited set point range:

- 18.0 24.0°C (0.5°C resolution)
- 64 76°F (1°F resolution)

Technical Data:

Temperature Control Range: 5-55°C /40 - 130°F

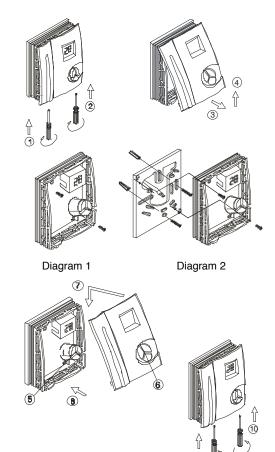
Temperature measurement: 0- 60°€ /

Accuracy: ± 1°F, ±0.5°C Resolution: 1°F, 0.5°C Operating Voltage: 24Vac Frequency: 50/60Hz Relay Rating: 24Vac 2A

Sensing Element: NTC thermistor

Terminals: 18 gauge

Operating Temperature: $0 - 40^{\circ}\text{C} / 32 - 104^{\circ}\text{F}$ Storage Temperature: $-10 - 50^{\circ}\text{C} / 0 - 122^{\circ}\text{F}$



9/. Backlight:

 Press the backlight will light up the LCD display for 10 seconds.

10/. Output icon

32tagte410 freating is turned on, LCD displays -o- icon

- Stage 2 heating is turned on, icon will be flashing
- All output is off, no icon will be shown

Caution: Switch off the electric source before maintence the thermostat. We recommend that the maintenance should be performed by trained personnel.

Factory default

Dip Switch

Selection

#1 OFF

#2 ON

#3 ON

#4 0FF

#5 ON

#6 ON

#7 OFF