



## TE151 LCD Electronic Thermostat 24V

### Mounting Location:

The thermostat is restricted to be used in indoor only. It should be mounted on an inner wall about 1.5m above the floor at a position where it is readily affected by changes of the general room temperature/humidity with freely circulating air. Avoid to mount on hot surfaces ( e.g. TV, heater, refrigerator), or expose to direct sunshine, draft, equipment radiation or in laundry room or other enclosed space. Do not expose this unit to dripping or splashing.

### Mounting Instruction:

#### 1/.Remove Cover:

- Place all the switches at the bottom position
- 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 loose the top locks

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

- Ensure the surface is level
- Place the cables at the hole near the terminal block
- Insert 2pcs of wall anchors into the holes of the wall
- Fasten the thermostat with 2pcs of long screws through the 2 mounting holes

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

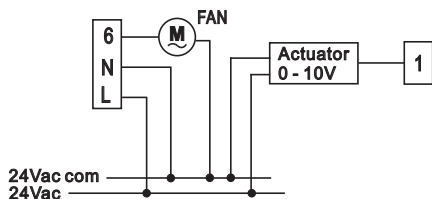
- Adjust the bottom plate on the wall or junction box and ensure the plate is at surface level and cover the junction box comfortably
- If necessary,pull the cables out at the middle hole of the bottom plate
- Insert 2pcs of wall anchors into the holes of wall if necessary
- Fasten the plate with 2pcs of long screws
- Place the cables at the hole near the terminal block
- Fasten the thermostat with 2pcs of screws through the 2 mounting holes

#### 4/.Electrical Connection:

- Be sure all thermostat slide switches are at the bottom position
- Wire the proper cables at the terminal block according to the circuit diagram attached inside the top cover
- Afterward, push all cables back into the wall
- Do not use metal conduit or of cable provided with a metal sheath
- Recommend to add fuse or protective device in the line circuit

#### 5/.Install the Cover:

- Ensure the thermostat slide switches are at the bottom position (@ '5a')
- Align the slide switch knobs at the bottom position (@ '5b')
- Ensure the rubber key is firmly attached on the PCB (@ '6a')
- Rubber key fitting location on the cover is right towards to rubber key(@ '6b')
- 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 the slide switches and the rubber keys can be moved smoothly, otherwise reinstall the cover and realign properly



#### 6/.Temperature setting up:

- Select operation mode (HEAT/OFF/COOL) with switch
- Select Fan mode (ON/AUTO) with AUTO switch.
- Select the comfortable temperature by pressing or to the desirable temperature
- Return the room temperature display after 10 seconds
- Backlight would be provided by pressing or , it would be off after keys released 10 seconds

#### 7/.Jumper selection:

- J1: Select temperature scale (°C / °F)
- J2: Select Euro (R.A.) / US (D.A.) version

### Maintenance:

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

#### 1/.No fan speed control

- Check fan speed slide switch performance, clean the contact or replace if necessary
- Check the PCB terminal block performance, clean the contact or replace if necessary

#### 2/.No heating/cooling control

- Check the thermistor sensor performance by measuring the corresponding variable resistance under different temperature, if it is in good condition and the LCD value will change accordingly, then trace the control circuit or the LCD connection, otherwise replace it
- If the control circuit has problem, replace the PCB if necessary

### Technical Data:

|                        |                        |
|------------------------|------------------------|
| Temperature Range:     | 5 - 35°C / 40 - 95°F   |
| Proportion Band:       | 2°C/4°F                |
| Power Supply:          | 24Vac ±20%             |
| Frequency:             | 50/60Hz                |
| Analogue output:       | 0-10VDC                |
| Sensing Element:       | NTC thermistor         |
| Terminals:             | 2mm <sup>2</sup> Cable |
| Operating Temperature: | 0-50°C / 32-122°F      |
| Storage Temperature:   | -10 -60°C / 14-140°F   |

