

## ET09 Electronic Thermostat for Heater only(230V)

### Mounting Location:

The thermostat is restricted to be used in indoor only. It should be mounting 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 with freely circulating air. It is avoid to be mounted on hot surfaces ( e.g. TV, heater, refrigerator), or exposed to direct sunshine, or draughts, or 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 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 lock

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

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

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

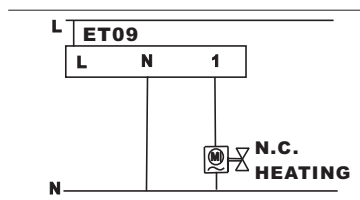
- Adjust the bottom plate on the wall or junction box and ensure the plate is at surface level and cover the junction box comfortably
- If necessary,pull the cables out at the middle hole of the bottom plate
- Place the 2pcs of wall anchors at the wall if necessary
- Fasten the plate with the 2pcs of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

#### 4/.Electrical Connection:

- Wire the proper cables at the terminal block
- 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 live circuit

#### 5/. Install the Cover:

- Align the shaft of the rotary volume in horizontal direction (@ '5a')
- Align the rotary knob with the pointer at the top (@ '5b')
- Place the cover in direction (@ '6') and ensure the top locks are fastened
- Press the cover in direction (@ '7') and fasten the cover with 2 screws(@ '8') (@ '9')
- Check the rotary knob can be moved smoothly, otherwise reinstall the cover with the rotary knob realigned properly



#### 6/. Temperature setting up:

- Select the comfortable temperature by rotating the indicator to the position of suitable temperature

### Maintenance:

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

#### 1/. No heating control

- Check relay on off performance by applying DC voltage at the coil, if it works then trace the control circuit otherwise replace it
- Check rotary volume performance by measuring the corresponding variable resistance, if it is in good condition then trace the control circuit otherwise replace it.
- Check the thermistor performance by measuring the corresponding variable resistance under different temperature condition, if it is in good condition then trace the control circuit otherwise replace it
- If the control circuit has problem, replace the PCB if necessary

### Type Designation:

ET09: For heating only

### Technical Data:

Temperature Range:	10 to 30°C adjustable
Switching Differential:	Approx. 1°C
Operating Voltage:	230 VAC
Frequency:	50/60Hz
Rating:	230 VAC 50/60Hz 16(3)A max
Sensing Element:	NTC thermistor
Time Constant:	Approx. 2 min
Terminals:	2 sq. mm Cable
Operating Temperature:	0 to 40°C
Storage Temperature:	0 to 50°C
Operating Humidity:	5 to 90% non-condensing

