

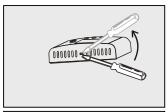
SMT-203B Series rev2

Owner's Manual – Installation and Operating Instructions



Please read this manual carefully before installation and use.

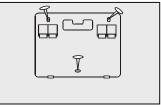
2. Installation Instructions



Separate the front panel from the back panel by depressing the tongue located at the top of the unit.



Pull the back panel out.



Line the back panel up against the wall or flat surface. Install three screws as required.



Make electrical connections as shown on enclosed electrical wiring connections. (Next page)

Install the cover to the back panel; first the two tabs on the bottom and then the top tongue. Push until tight against the wall.

3. Wiring Connections

Heat / Cool System

SMT-203B								
R	24VAC							
С								
W	Heat							
G2	Fan Medium							
0	Window Contact							
IN	Window Contact							
T0	External Sensor							
Т								
G3	Fan High							
G1	Fan Low							
Υ	Cool							



IMPORTANT! Before making any changes in the Dip Switches, disconnect the electricity in the main board.

4. DIP switch Explanations (different configurations)

Location of Dip Switches:

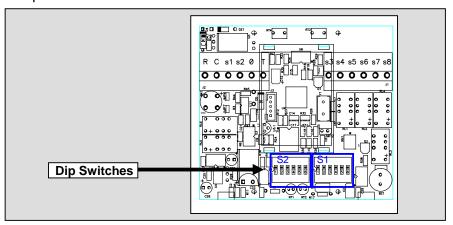


Table 4.1 - Dip Switch selection

Dip Switch S1:

Func.	Fan Speed	i	Time Delay	y*	Fan Mode in Econ.		
No.	1 Speed	3 Speeds	3 Minutes	No Delay	Auto Fan	Continuous	
1					OFF	ON	
2	OFF	ON					
3			OFF	ON			
4	OFF	OFF					
5							
6							

Dip Switch S2:

Func	Internal/External Sensor		Mode Cool	Mode COOL	Display Room Temperature		Window Contact	
No.	Internal	External	Only	& HEAT	Yes	No	Switch off	Go to Economy
1	ON	OFF						
2	OFF	ON						
3	ON	OFF						
4			OFF	ON				
5					OFF	ON		
6							OFF	ON

4.2 DIP Switch Operation

The Dip Switch has 6 pins.

Each pin can be set ON or OFF.



Example

In this example, pins 1,6 are ON and pins 2,3,4,5 are OFF.

4.3 External sensor connection - option



Table 4.3 - N.TC. Sensor: Temperature ~ Resistance Characteristics

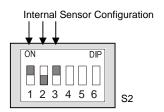
Temp °C	7.2	10.0	12.8	15.6	18.3	21.1	23.9	26.7	29.4	32.2
Temp °F	45	50	55	60	65	70	75	80	85	90
Res. k	115.8	100.9	88.1	77.1	67.7	59.6	52.5	46.4	41.2	36.6

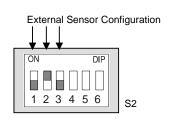


The factory default is INTERNAL SENSOR.

- Disconnect the power to the thermostat (24vac).
- Move the DIP Switch S2 as described in the 'Dip Switch S2' table above.
- Connect the temperature sensor to T0, T terminals.
- Reconnect the power (24vac).
- Make sure the display reading is that of the external sensor.

The Maximum length of the Unshielded cable for the external sensor is 30 meters. If a longer distance is required, then the cable MUST be shielded.





5. Operating Manual

5.1 On/Off

Press the ON/OFF button to activate or deactivate the thermostat.

The word "ON" or "OFF" will appear in the display.

5.2 Set temperature

Press the SET buttons (+) or (-); the temperature will flash, change with the set buttons (+) or (-).

5.3 Selecting modes

Press the MODE button to switch between the four modes:

- Cool
- Heat
- Cool/heat (auto-change over),
- Fan only.

5.4 Selecting fan speeds

Press the FAN button to switch between speeds:

- Low
- Medium
- High
- Auto speed

5.5 Fan/Auto Fan function

Press the FAN button to select AUTO FAN, press again to cancel. In AUTO FAN the fan will only run when calling for heat or cool.

6. Installer Settings

6.1 Set temperature limits and offset

First, set the temperature to 10°C.

Set limit for cool

- Press and hold the MODE button (5 seconds).
- "COOL" will appear on display.
- Adjust set limit for "Cool" using the "+" and "-" buttons.

Set limit for heat

- Press the MODE button again.
- "HEAT" will appear on display.
- Adjust set limit for "Heat" using the "+" and "-" buttons.

Set the offset (the offset is used for calibration of the measured temperature).

- Press the MODE button again.
- Adjust set offset using the "+" and "-" buttons (range -6°C/+6°C default 0°C).

Set limit for cool in economy mode

- Press the MODE button again.
- "AUX" and "COOL" will appear on display.
- Adjust set limit for "Cool" in economy mode using the "+" and "-" buttons.

Set limit for heat in economy mode

- Press the MODE button again.
- "AUX" and "HEAT" will appear on display.
- Adjust set limit for "Heat" in economy mode using the "+" and "-" buttons.

Set time delay between compressor stages

- Press the MODE button again.
- "AUX" and number will appear on display.
- Adjust set time delay between compressor stages using the "+" and "-" buttons (Range 1-10 minutes).

Set Dead Band in Auto change over mode

- Press the MODE button again.
- "°C" and number will appear on display.
- Adjust differential for Auto-change over mode using the "+" and "-" buttons (Range 2°C - 5°C).

6.2 Keyboard Lock

First, make sure the set temperature is **NOT 10°C**.

Lock the thermostat's buttons

Press and hold 'MODE' button (5 second).



Unlock the thermostat's buttons

• Press and hold 'ON' button (5 second).



6.3 Window contact input

This input is used to connect a door switch, window contact, etc. It is a normally open (active when closed) and Voltage Free (2 terminals).

If window contact closes, the thermostat has two options:

- Option A: The thermostat will turn OFF.
- Option B: The thermostat will change the set point (switch to Economy Mode) To change these options in the thermostat please refer to the Dip Switch explanations.

Specifications

Mode: Heat / Cool

Range: 5° to 30° c.
Resolution: £.0°c
Accuracy: ±0.3°c
Dead Band: 0.8° c
Load rating: 2Amps.
Voltage: 24VAC.
Connectors: Screw type.
Material: PC/ABS

Size: 80 x 90 x 22mm
Flammability: UL 94V-0
Weight: 145g
Warranty: 1 year
I.R. Receiver: Not Installed
SW Version: ESUP033 694C