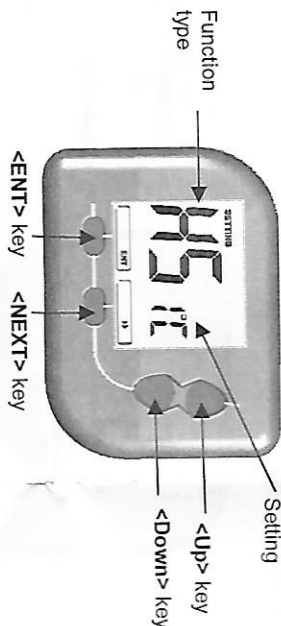


3. The letters represent Mode type.
4. Press <Up>/<Down> to adjust Mode type.
5. Press <ENT> to select Mode type and return to Normal Display Mode.

#### Function Setting Selection

1. Press and hold <Fan> and <Down> keys for 2 sec.
2. LCD changes to the display of Function setting selection.



3. The left letters represent Function type, the right letters represent Setting.
4. Press <Up>/<Down> to adjust Function type/ Setting.
5. Press <NEXT> to select Function type/ Setting.
6. Press <ENT> to return to Normal Display Mode.

Description of the Mode types:

1. **Heat only**  
Heat Only Mode can be used for normal-open or normal -close valves. Fan cannot be selected.
2. **Heat with fan**  
Heat Only Mode with Fan Selection.
3. **Cool**  
Cool Only Mode with Fan Selection.
4. **Heat Pump**  
Heat/ Cool/ Auto Mode can be selected with changeover valve (reversing Valve).  
(\*While in Auto Mode, there is a Heat/Cool switching delay of 4 minutes for switching a heating system to cooling system or vice versa. During the period, neither Heater / Cooler nor Fan will turn on.)
5. **Electric / gas heat with cool**  
Heat/ Cool/ Auto Mode can be selected. ( Default Setting)

Table of the Internal Setting:

Mode type	Function type	Setting
HO Heat only	HS Span of Heater	1°C / 2°F
	dU Temperature Display Unit	°C
HF Heat with fan	HS Span of Heater	1°C / 2°F
	dU Temperature Display Unit	°C
FC Fan Control Method	FC Fan Control Method	O Gas Heater - equipment controls E Electric furnace - thermostat controls fan
	dU Temperature Display Unit	°C
CL Cool	dU Temperature Display Unit	°C
	CS Span of Cool	1°C / 2°F
CD Compressor	Cd Minimum-Off Delay	1 1 minute compressor off delay 2 2 minute compressor off delay 3 3 minute compressor off delay 4 4 minute compressor off delay 5 5 minute compressor off delay
	HS Span of Heater	1°C / 2°F
CO Changeover Valve	CO Changeover Valve	C (default) H O/B terminal energized in heating
	dU Temperature Display Unit	°C
HP Heat pump	CS Span of Cool	1°C / 2°F
	Cd Compressor/ Heater Minimum-Off Delay	1 1 minute compressor off delay 2 2 minute compressor off delay 3 3 minute compressor off delay 4 4 minute compressor off delay 5 5 minute compressor off delay
SL Mode Adjustment	SL Mode Adjustment	1 Heat, Cool, Off Selectable 2 Auto, Off Selectable 3 Heat, Cool, Off, Auto Selectable
	HS Span of Heater	1°C / 2°F (Default setting)
dU Temperature Display Unit	dU Temperature Display Unit	°C (Default setting)
	CS Span of Cool	1°C / 2°F (Default setting)
Cd Compressor Minimum-Off Delay	Cd Compressor Minimum-Off Delay	1 1 minute compressor off delay 2 2 minute compressor off delay 3 3 minute compressor off delay 4 4 minute compressor off delay 5 5 minute compressor off delay
	SL Mode Adjustment	1 Heat, Cool, Off Selectable 2 Auto, Off, Selectable 3 Heat, Cool, Off, Auto Selectable
FC Fan Control Method	FC Fan Control Method	O Gas furnace - equipment controls E Electric furnace - thermostat controls fan
	dU Temperature Display Unit	°C

#### F. Replaceable Batteries Instruction

Batteries shall be installed with proper polarity and correct battery type.

Do not use old and new batteries simultaneously.

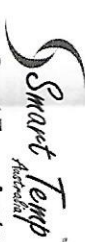
Batteries shall be removed if consumed or if product is to be left unused for a long time. Use 1.5V/ cell ALKALINE batteries 2 pieces.

#### G. Specification:

1. Temperature Measurement: 0°C~40°C/ 32°F~99°F
2. Accuracy: ±0.5°C/ 1°F
3. Temperature Controllable Range: 5°C~35°C/ 40°F~95°F
4. Resolution: 0.5°C/ 1°F
5. Power Supply: 24V~ +/ -10% or 2 x AAA alkaline batteries
6. Rating: 24V~ 50/ 60Hz 1A max
7. Terminals: 2mm<sup>2</sup> cable
8. Operating Temperature: 0~50°C/ 32~122 °F
9. Storage Temperature: -5~50°C/ 23~122 °F
10. Sensing Element: NTC thermistor

Due to continual product improvement these specifications are subject to change without notice.

Warranty – One Year Return to Base.



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# Smart Temp Model SMT-110 Digital Thermostat

## A. Installation, Mounting:

### CAUTION:

1. Turn off SMT-110, all electronic source and electrical devices (e.g. heater) which will be connected before installation and maintenance.
2. The installer must be a trained HVAC service technician.

## 1. Installation Location

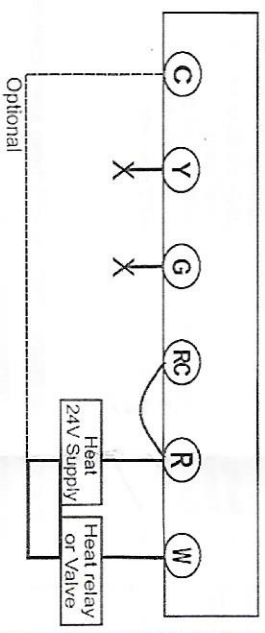
The thermostat should be mounted on an inner wall 1.5m above the floor in a position where it is readily affected by changes of general room temperature with freely circulating air. Prevent direct exposure to sunlight. Do not place this unit at a location where air circulation is low or where there is great temperature changes (e.g. near door). Do not place the thermostat near any heat generating sources (hot air vents, TV or lights).

## 2. Wiring

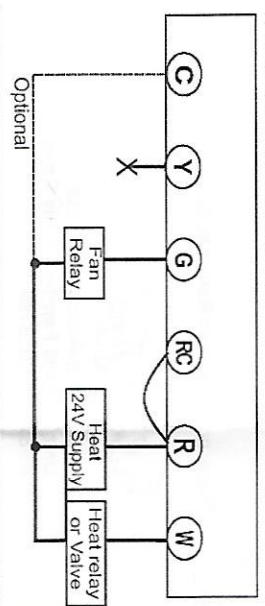
The SMT-110 has 6 terminals at the back of the thermostat which are labeled as "C", "Y", "G", "RC", "R" and "O/W B". Different wirings are for different Mode types.

### "C" Terminal is optional for 24Vac Powered

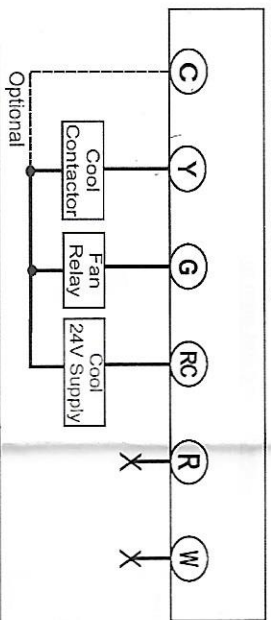
Mode type 1 (HO) : Two wire Heat only



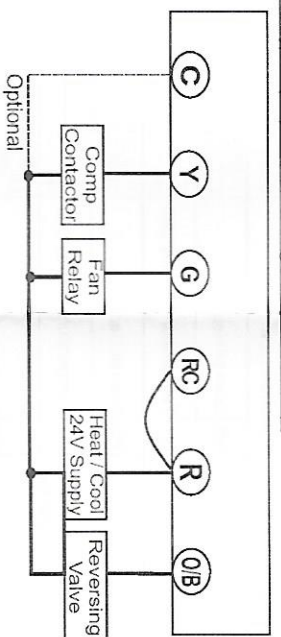
Mode type 2 (HF) : Three wire Heat only



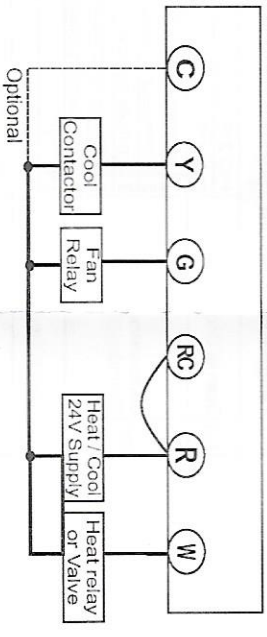
Mode type 3 (CL) : Three wire Cool only



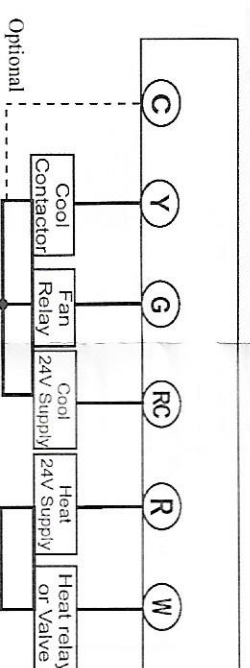
Mode type 4 (HP) : Four wire Single Stage Heat Pump.



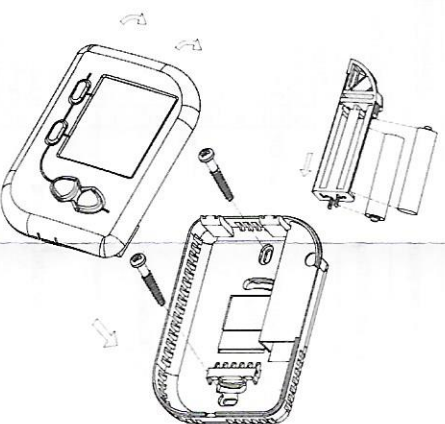
Mode type 5 : Single Transformer Heat/Cool System



Mode type 5 : Two Transformer Heat/Cool System



## 3. Mounting:



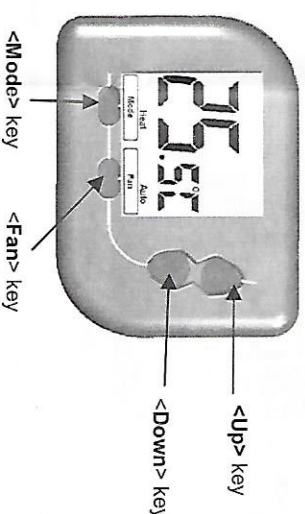
1. Ensure that the surface is level.
2. Place the cables at the hole near the terminal block.
3. Insert 2 pcs of wall anchors into the holes of the wall.
4. Fasten the thermostat with 2 pcs of long screws through the 2 mounting holes.

## B. Start/Reset:

1. When the system is reset, all the LCD segments is ON and measured temperature will be displayed after a while.
2. Low Battery Check will be done at startup. **[Low Bat.]** will be shown if battery is low
3. Output will be turned off at startup

## C. Normal Display Mode:

1. Temperature detection starts and LCD displays the room temperature
2. In Heat or Auto Mode, defrost function is activated with **[Defrost]** displayed when temperature is below 5°C/ 40°F. Heater is on regardless of the setting temperatures
3. Below 0°C/ 32°F, SMT-110 will display **LO.**
4. Above 40°C/ 99°F, SMT-110 will display **HI.**



## D. Temperature Setting Display Mode:

5. Press **<Up>/<Down>** to adjust Heat/ Cool setting temperature
6. Press **<Mode>** to select Heat/ Cool/ Auto/ Off Mode
7. Press **<Fan>** to select Fan On/ Auto

### To adjust Heat/ Cool setting

1. Press **<Up>** or **<Down>** keys to adjust Heat/ Cool setting temperature
2. Normal Display Mode.
3. Heat/ Cool setting temperature flashes.
4. In Heat Mode, only Heat setting temperature can be adjusted.
5. In Cool Mode, only Cool setting temperature can be adjusted.
6. In Auto Mode, Heat and Cool setting temperature can be adjusted
7. Press **<Mode>** key to exchange the Heat and Cool setting temperature in Auto Mode.
8. The operation will resume to Normal Display Mode if no key is pressed for 10 sec.

## E. Internal Mode Setting Display:

To adjust the internal setting of SMT-110:

### Mode Type Selection

1. Press and hold **<Mode>** and **<Up>** keys for 2 sec.
2. LCD changes to the display of Mode type selection.