

# FMT24-SUPER

## Owner's manual & Technician Settings



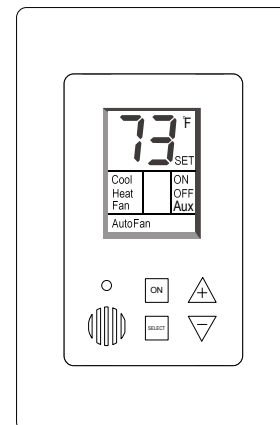
## Operating instructions

### ON-OFF

- Press the [ON] button to turn the thermostat ON or OFF.

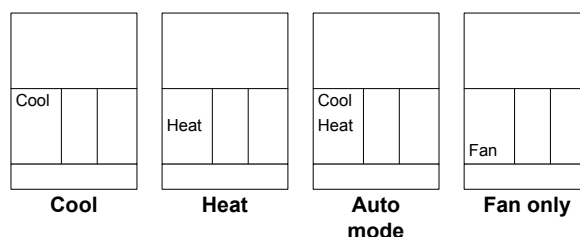
### Set point

- Press the [+] or [-] buttons once to view the set point temperature.
- Press again to adjust the set point.



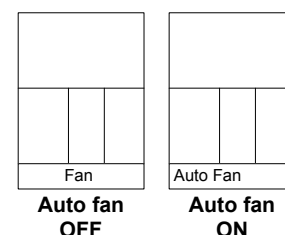
### Modes and Auto fan (fan on demand)

- Press the [SELECT] button – the mode will flash.
- Using the [+] and [-] buttons switch between modes:
  - “Cool”..... Cooling
  - “Heat”..... Heating
  - “Cool” & “Heat”..... Auto mode
  - “Fan”..... Fan only



Note: During demand for cooling or heating, the active mode will flash.

- Press the [SELECT] button again – “Auto Fan” or “Fan” will flash.
- Using the [+] and [-] buttons switch between:
  - “Fan”..... The fan will work continuously.
  - “Auto Fan”..... The fan will work on demand for cooling or heating.



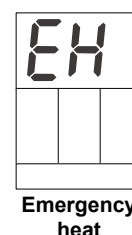
Note: Auto fan cannot be selected in Fan only mode.

### Emergency heat – to be used in extremely low outdoor temperatures

- Make sure the set point temperature is different than 10°C (50°F).
- Press and hold the [SELECT] button to activate emergency heat – release the [Select] button when "EH" appears on display.
- Press and hold the [SELECT] button again to deactivate emergency heat – release [Select] button when “H” appears on display.

Notes:

- Emergency Heat can be activated in heat pump configuration only (please refer to the technician settings section in this manual) and in heating mode.
- When the Emergency Heat is active, the compressor will stop and only the heat element will be used for heating. The display will alternate between “EH” and the room temperature.



File: FMT24-SUPER\_operating manual.vsd

## Operating instructions (Cont')

### Economy mode

- Press and hold the [ON] button (5 seconds) to activate economy mode – “EC” will appear on display.
- Press and hold the [ON] button again to return to normal display.  
Note: In economy mode, the set-point temperature for cooling = 29°C (85°F) and the set-point temperature for heating = 13°C (55°F).



Economy  
mode

### Low temperature alarm indication

- When the measured temperature is less than 6°C (45°F) → “AL” will flash.
- The indication will automatically disappear when the measured temperature is higher than 8°C (48°F).



Emergency  
heat

## Installation

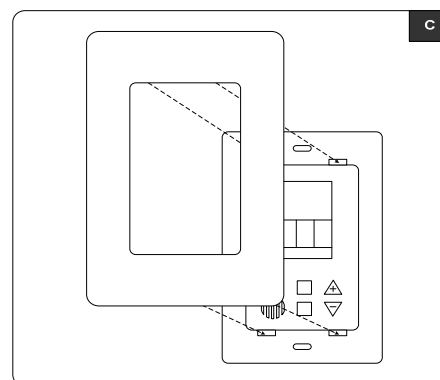
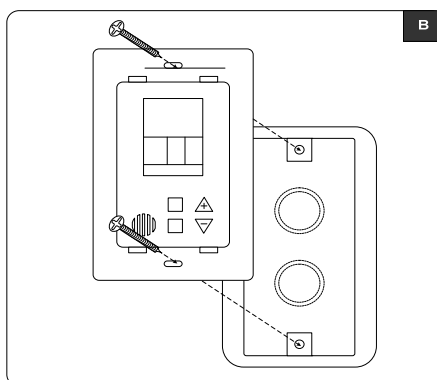
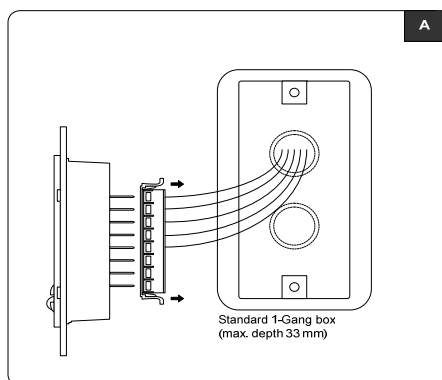
The FMT24-SUPER is designed for flush mounting in the room to be controlled. It should be located where the occupant can easily read the LCD display and use the controls. The module should be placed in such location which represents the room general conditions. Cold or warm air draughts; radiant heat and direct sunlight should be avoided.

### General points to follow:

- Disconnect power to the main board before installing the unit.
- The unit **MUST** be fitted into a standard electrical box (Carlon – B114R or similar)
- The unit should not be installed on an outside wall or where there is an air draft.
- The unit must not be exposed to a direct sunlight.
- The standard height to install this unit is 1.5 meter (5 feet) from the floor.

### Installation procedure:

- Connect the wires as shown in the enclosed wiring diagram. All terminals accept  $1 \times 0.5 \text{ mm}^2$  /24 AWG.
- Place the thermostat in the electrical box and tighten up the 2 screws.
- Adapt the front frame-panel into its place, by pushing it towards the wall.

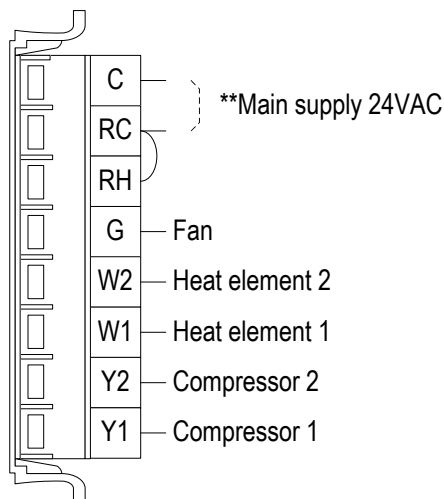


## Wiring

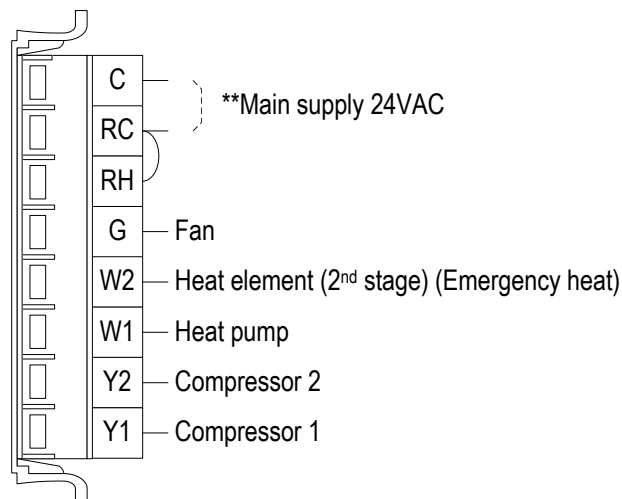
Before connecting or disconnecting any wires, ensure that all power supplies have been switched off and all wires are potential-free to prevent equipment damage and avoid electrical shock.

Do not run wiring close to transformers or high frequency generating equipment. Complete and verify all wiring connections before applying power to the controller to which the module is connected.

### System without heat pump (heat elements only)



### System with heat pump



#### Notes:

1. For a non heat pump system with one heat element, leave terminal "W2" free.
2. When Emergency heat mode is selected, the compressor and heat pump will close and the heat element will turn ON (Emergency heat is available in heat pump configuration only).
3. RC-RH, - When using one transformer, RC,RH terminals must be shorted.

## Technician Settings

### Enter technician settings mode

- Adjust the set point temperature to 10°C (50°F)
- Press and hold the [SELECT] button for 5 seconds to enter technician settings mode.

### Temperature limit for cooling

- "Cool" will flash.
- Use the [+] and [-] buttons to adjust the temperature limit for cooling.  
Range: 10...30°C (50...88°F), Default 10°C (50°F).

### Temperature limit for heating

- Press the [SELECT] button again – "Heat" will flash.
- Use the [+] and [-] buttons to adjust the temperature limit for heating.  
Range: 10...30°C (50...88°F), Default 30°C (88°F).

### Temperature scale

- Press the [SELECT] button again – "C" or "F" will appear on display.
- Use the [+] and [-] buttons to select between:
  - "C"..... Celsius
  - "F"..... Fahrenheit

### Offset for calibration of measured temperature

- Press the [Mode] button again – the offset will appear on display.
- Use the [+] and [-] buttons to adjust the offset.  
Range: -6...+6°C (-6...+6°F), Default 0°C (0°F).

### Terminal "W1" configuration - Heat pump or heat element

- Press the [SELECT] button again – "HC" or "HP" will appear on display.
- Use the [+] and [-] buttons to select between:
  - "HC".....Heat element connected to "W1"
  - "HP".....Heat pump connected to "W1"

°C



10

Cool

Enter tech. settings

10

Cool

Limit Cool (°C)

30

Heat

Limit Heat (°C)

C

Celsius

0

Offset(°C)

HC

Heat element

°F



50

Cool

Enter tech. settings

50

Cool

Limit Cool (°F)

88

Heat

Limit Heat (°F)

F

Fahrenheit

0

Offset (°F)

HP

Heat pump

## Technician Settings (Cont')

### Heater type – Electric or Oil/Gas – Selection for non heat pump configurations

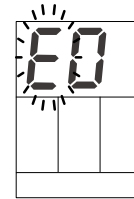
- Press the [SELECT] button again – “EO” will appear on display.
- Use the [+] and [-] buttons to select between:
  - “E” flashing..... Electric heater
  - “O” flashing.....Oil/Gas heater

Note:

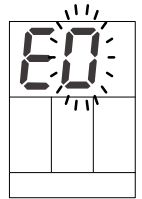
In Oil/Gas configuration, when Auto fan (fan on demand) is selected, the fan will stop.

In Electric heat configuration, when Auto fan is selected, the fan will work on demand for cooling or heating.

This selection will not be available when heat pump is connected to “W1” terminal (Previous technician selection).



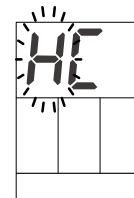
Electric  
heater



Oil/Gas  
heater

### Heat pump in cool or in heat – Selection for heat pump configuration only

- Press the [SELECT] button again – “HC” will appear on display.
- Use the [+] and [-] buttons to select between:
  - “H” flashing..... Heat pump active in heat (B)
  - “C” flashing.....Heat pump active in cool (O)



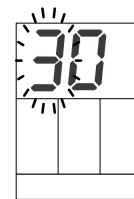
Active  
in heat



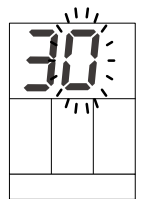
Active  
in cool

### Enable/Disable compressor delay

- Press the [SELECT] button again – “30” will appear on display.
- Use the [+] and [-] buttons to select between:
  - “3” flashing..... 3 Minutes compressor delay)
  - “0” flashing..... No delay



3 Minutes  
delay



No  
delay

- Press the [SELECT] button again – “30” will appear onto return to normal display.



**Tel: +972-3-9626462**

**Fax: +972-3-9626620**

**support@meitavtec.com**

**www.meitavtec.com**