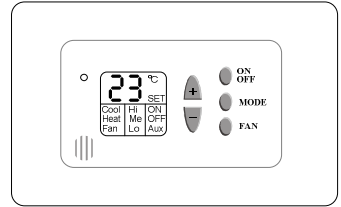


## Installation

The FMH220 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. If the built in temperature sensor is being used to measure room temperature, the module should be placed where the temperature is representative of the general room conditions. Cold or warm air draughts; radiant heat and direct sunlight should be avoided.

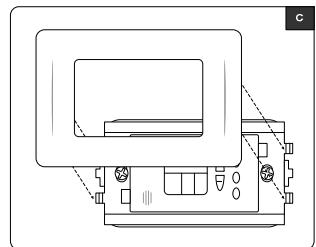
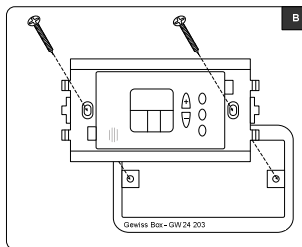
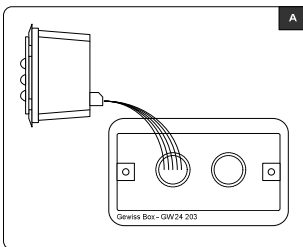


### General points to follow:

- Disconnect power to the main board before installing the unit.
- The unit **MUST** be fitted into a standard electrical box (Gewiss Box - GW 24 203)
- 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:

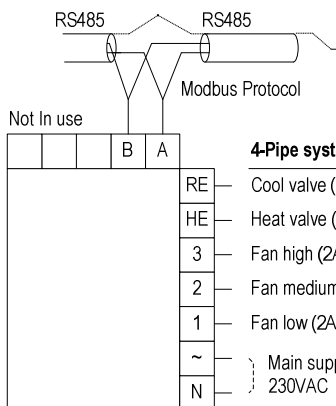
- Connect the wires as shown in the enclosed wiring diagram. All terminals on accept 1x0.5 mm<sup>2</sup> /24 AWG.
- Place the thermostat in the electrical box and tighten up the 2 screws (Gewiss Box - GW 24 203).
- Adapt the front frame-panel into its place, by pushing it towards the wall.



## 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.



Communication cable  
2x22AWG Twisted, Shielded  
(SFTP 120Ω @ 1MHz)

### 4-Pipe systems

- RE — Cool valve (0.5A)
- HE — Heat valve (0.5A)
- 3 — Fan high (2A)
- 2 — Fan medium (2A)
- 1 — Fan low (2A)
- ~ } Main supply
- N } 230VAC

### 2-Pipe systems

- RE — One valve (0.5A)
- HE — Heat element (0.5A)

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**FMHC220-FC-MDB01**  
Owner's manual & Technician Settings

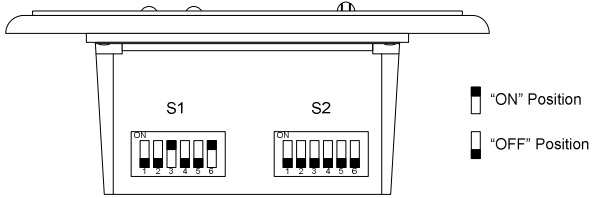
Tel: +972-3-9626462  
Fax: +972-3-9626620  
www.meitavtec.com | support@meitavtec.com



## DIP Switch Configuration

The DIP Switches are located on the top of the back side of the thermostat.

**Important:** Switches 5 and 6 of DIP switch 1 should remain in factory default position (5-OFF and 6-ON)



### MAC Address

All Switches of DIP switch S2 and switch no. 1 of DIP switch S1 are used binarically to define the MAC address of the unit as follows:

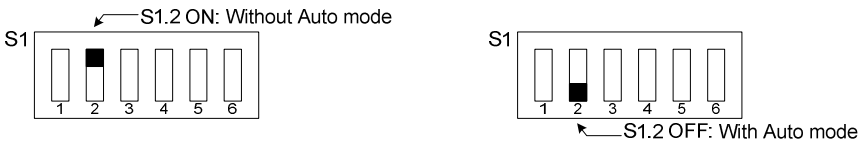


All switches OFF: Address 0 ; All switches ON: Address 127 ( $1+2+4+8+16+32+64$ )

Any other MAC address should be calculated as a combination of the switches above.

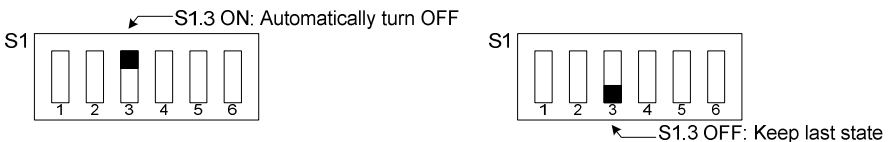
Example: Address 13: S2.1, S2.3 and S2.4 ON ( $1+4+8=13$ ) ; All other address switches OFF

### Auto change over mode (switch no. 2 of DIP switch 1)

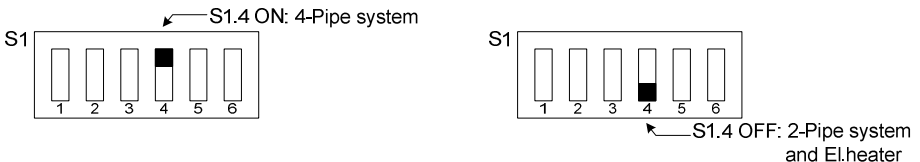


Note: In 2-Pipe system (see S1.4) the auto mode selection will be disabled regardless of switch S1.2 position.

### Automatically turn OFF after an electrical blackout or keep last state (switch no. 3 of DIP switch S1)



### 2-Pipe and Electrical heater / 4 Pipe (switch no. 4 of DIP switch 1)



**FMHC220-FC-MDB01**  
**Owner's manual & Technician Settings**

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## Technician Settings (Temperature limits and Offset)

- Adjust the set point temperature to **10°C**. Wait until display stops flashing.
- Press and hold the [MODE] button (10 sec.) to **enter technician settings**.
- Use the [MODE] button to switch between different configurable parameters.
- Use the [+] and [-] buttons to make adjustments or switch between options.



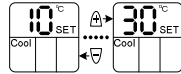
MODE

Default

MODE

### Set point temperature limit for cooling

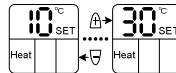
Indication: "Cool" and the set point temperature limit for cooling.  
Range: 10...30°C, default 10°C.



MODE

### Set point temperature limit for heating

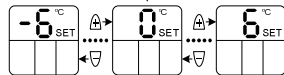
Indication: "Heat" and the set point temperature limit for heating.  
Range: 10...30°C, default 30°C.



MODE

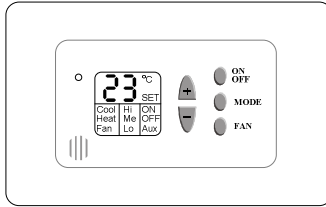
### Offset for calibration of measured temperature

Range: (-6)...(+6)°C, default 0°C.



MODE

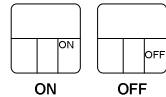
# Operating instructions



## On/Off

- Press the [ON-OFF] button to turn the thermostat ON or OFF.
- "ON" or "OFF" will appear on display.

Note that the installer can configure the unit to automatically turn OFF after an electrical blackout .



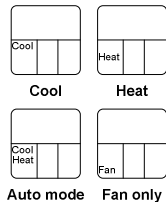
## Set point

- Press the [+] or [-] button – "SET" and the set point temperature will appear on display.
- Adjust using the [+] and [-] buttons.



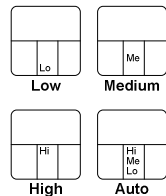
## Modes

- Press the [MODE] button to switch between modes:
  - "Cool"..... Cooling
  - "Heat"..... Heating
  - "Cool" & "Heat"..... \*Auto mode
  - "Fan"..... Fan only
- \* The Auto mode can be disabled by technician.
- \* The active mode will flash during demand for cooling or heating.



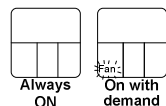
## Fan speeds

- Press the [FAN] button to switch between fan speeds:
  - "FanLo"..... Low speed
  - "FanMe"..... Medium speed
  - "FanHi"..... High speed
  - "A.Speed"..... Auto speed
- \*The active speed will flash.



## Auto fan

- Press and hold the [FAN] button (10 seconds) to select \*Auto fan configuration:
  - "Fan" flashes on display.....\*Fan cycles on with demand
  - "Fan" does not flash.....Fan is on continuously



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