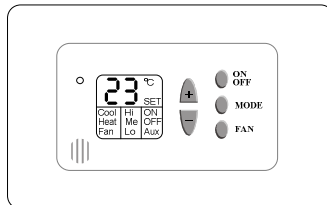


Installation

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.

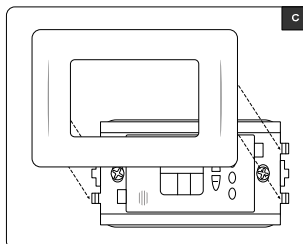
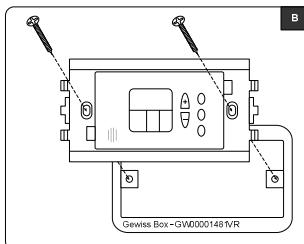
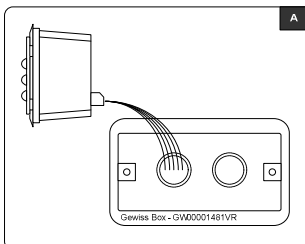


General points to follow:

- Disconnect power to the main board before installing the unit.
- The unit **MUST** be fitted into a standard electrical box (Gewiss Box - GW00001481VR)
- 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 mm² /24 AWG.
- Place the thermostat in the electrical box and tighten up the 2 screws (Gewiss Box - GW00001481VR).
- Adapt the front frame-panel into its place, by pushing it towards the wall.



File: FMHC220-P-FC-MDB01_rev1(8 pages).vsd

FMHC220-P-FC-MDB01
Owner's manual & Technnician Settings

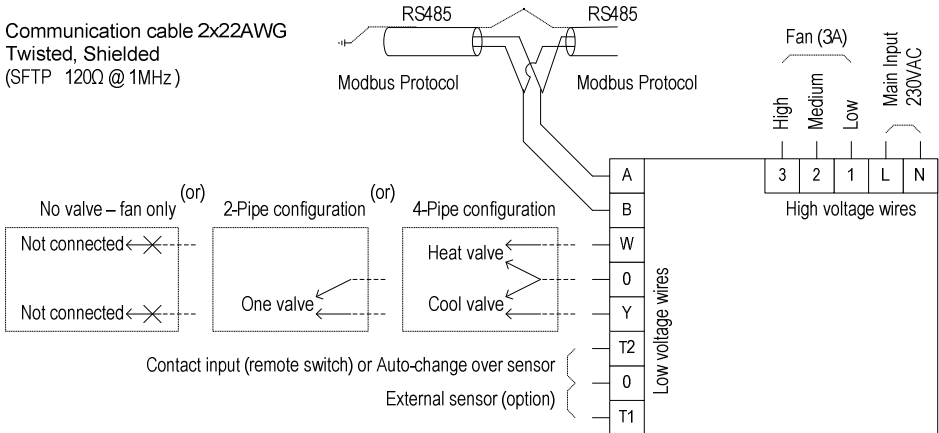
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Wiring

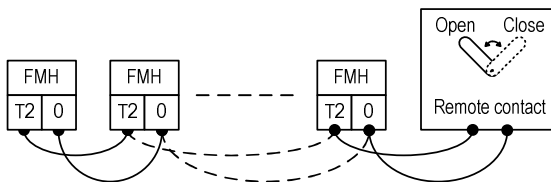
Before connecting or disconnecting any wires, ensure that all power supplies have been switched off and all wires are potential-free to prevent equipment damage and avoid electrical shock.

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.



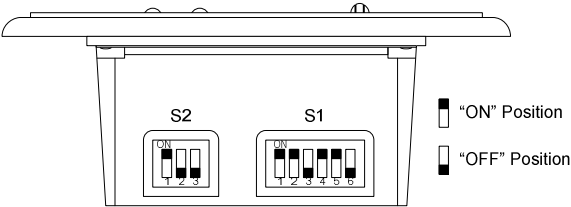
Installation of remote switch (option)

- Connect the "T2" and the "0" terminals of the thermostats as shown in the illustration below.
- Connect the "T2" and "0" terminals of the last thermostat to the remote switch.



DIP Switch Configuration

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



IMPORTANT: Disconnect power to the unit before changing the configuration of the DIP switches.

<u>Switch</u>	<u>"ON" Position</u>	<u>"OFF" Position</u>	<u>Default</u>
S1.1	Auto-Change Over Sensor	Contact Input (Remote switch)	ON
S1.2	4-Pipe system	2-Pipe system	ON
S1.3	1 Fan speed	3 Fan speeds	OFF
S1.4	With auto change over mode	Without auto change over mode	ON
S1.5	Set-point and Room temp. display	Set-point temp. display only	ON
S1.6	Always Auto fan	Auto fan selectable	OFF
S2.1	Internal sensor	External sensor	ON
S2.2	External sensor	Internal sensor	OFF
S2.3	External sensor	Internal sensor	OFF

Technician Settings (Temp. limits, Lock, Offset, "0", "T2" output, Beeper, MAC Address)

- 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.



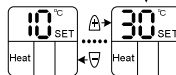
MODE

Default

MODE

Set point temperature limit for heating

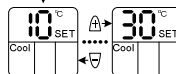
Indication: "Heat" and the set point temperature limit for heating.
Range: 10...30°C, default 30°C.



MODE

Set point temperature limit for cooling

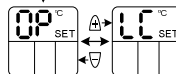
Indication: "Cool" and the set point temperature limit for cooling.
Range: 10...30°C, default 10°C.



MODE

Lock the [MODE] and [FAN] buttons

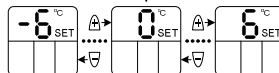
Indication: "OP" - Unlock (default)
"LC" - Lock



MODE

Offset for calibration of measured temperature

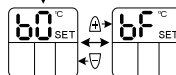
Range: (-6)...(+6)°C, default 0°C.



MODE

"0", "T2" input Enabled / Disabled

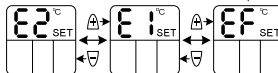
Indication: "bO" - Enabled (default)
"bF" - Disabled



MODE

"0", "T2" output functionality

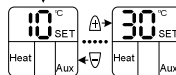
Indication: "EF" - Change over sensor (default),
"E1" - Remote switch (Off),
"E2" - Switch to EC Set point and Fan low



MODE

Set point temperature limit for heating in Economy mode

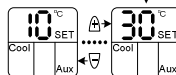
Indication: "Heat", "Aux" and the set point temperature limit for heating in economy mode.
Range: 10...30°C, default 10°C.



MODE

Set point temperature limit for cooling in Economy mode

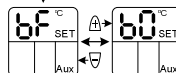
Indication: "Cool", "Aux" and the set point temperature limit for cooling in economy mode.
Range: 10...30°C, default 30°C.



MODE

Beeper On or Off

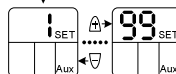
Indication: "bF" - Beeper Off (default)
"bO" - Beeper On



MODE

MAC Address

Indication: The MAC Address, "SET" and "Aux"
Range: 1...99



MODE

FMHC220-P-FC-MDB01

Owner's manual & Technician Settings

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Technician Settings (Limits for proportional outputs, Proportional band, Dead zone)

- Adjust the set point temperature to 11°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

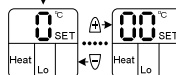
Default

MODE

Low limit for proportional heat output

Indication: "Heat", "Lo" and the temperature limit for proportional heat.

Range: 0...100%, default 0% (100% is indicated by "00")

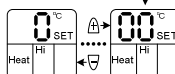


MODE

High limit for proportional heat output

Indication: "Heat", "Hi" and the temperature limit for proportional heat.

Range: 0...100%, default 100% (100% is indicated by "00")

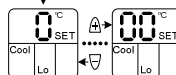


MODE

Low limit for proportional cool output

Indication: "Cool", "Lo" and the temperature limit for proportional heat.

Range: 0...100%, default 0% (100% is indicated by "00")

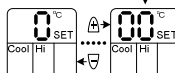


MODE

High limit for proportional cool output

Indication: "Cool", "Hi" and the temperature limit for proportional heat.

Range: 0...100%, default 100% (100% is indicated by "00")

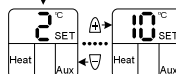


MODE

Proportional band for heat

Indication: "Heat", "Aux" and the proportional band for heat.

Range: 2...10°C, default 2°C

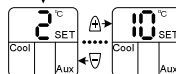


MODE

Proportional band for cool

Indication: "Cool", "Aux" and the proportional band for cool.

Range: 2...10°C, default 2°C

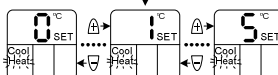


MODE

Dead zone for heat

Indication: "Cool", "Heat" (flashing), and the dead zone for heat.

Range: 0...5°C, default 1°C

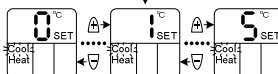


MODE

Dead zone for cool

Indication: "Cool" (flashing), "Heat", and the dead zone for cool.

Range: 0...5°C, default 1°C



MODE

FMHC220-P-FC-MDB01

Owner's manual & Technnician Settings

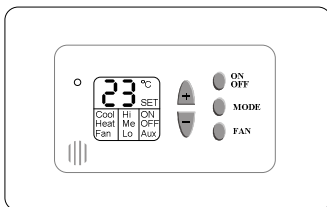
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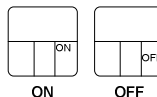


Operating instructions



On/Off

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



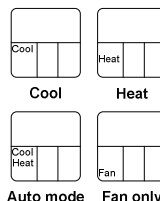
Set point

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



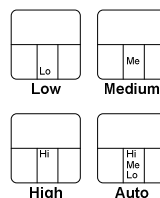
Modes

- 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.



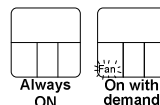
Fan speeds

- 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.



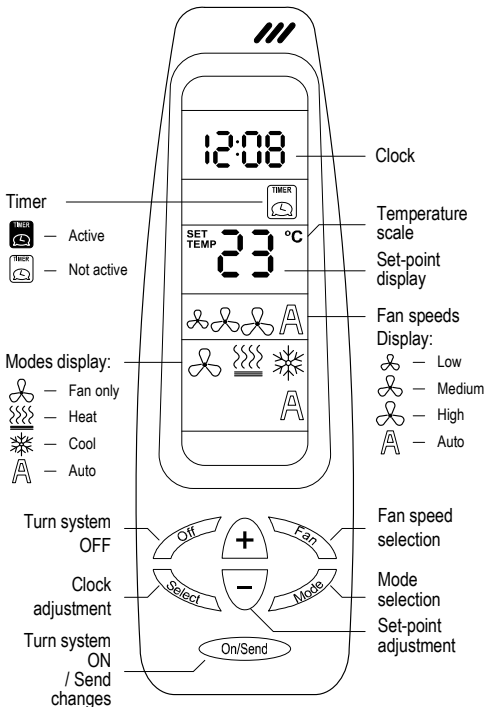
Auto fan

- 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
- * The Auto fan function can be disabled by technician.



RT03 – Infra-Red Remote Control Unit (option)

General



Real Time Clock and Day

- Press the [Select] button – “CLOCK SET” will flash.
- Press the [+] or [-] buttons - the hours will flash. Adjust the hours using the [+] or [-] buttons.
- Press the [Select] button again – the minutes will flash. Adjust the minutes using the [+] or [-] buttons.
- Press the [Select] button again to return to normal display.
- Press the [On/Send] button to send information to the thermostat.

Timer

Start Time:

- Press the [Select] button twice – “PROGRAM & START” will flash on display.
- Press the [Select] button - the hours will flash. Adjust the hours using the [+] or [-] buttons.
- Press the [Select] button - the minutes will flash. Adjust the minutes using the [+] or [-] buttons.

Stop Time:

- Press the [Select] button – “PROGRAM & STOP” will flash on display.
- Press the [Select] button - the hours will flash. Adjust the hours using the [+] or [-] buttons.
- Press the [Select] button - the minutes will flash. Adjust the minutes using the [+] or [-] buttons.
- Press the [Select] button - the TIMER will flash. Select TIMER ON (black icon) or OFF (white icon) using the [+] or [-] buttons.
- Press the [On/Send] button to send the information to the thermostat.

Note that after break of power, the timer will be deactivated and the word “Aux” will flash on the thermostat’s display.

Batteries Replacement

When the batteries are low, the display of the remote control will dim. If the batteries will not be replaced the display will turn off completely.

Batteries replacement:

- Pull the batteries cover down to reveal the batteries.
- Remove the old batteries.
- **Wait for 10 minutes before installing the new batteries.**
- Install two new AAA batteries – Pay attention to the polarity.
- Return the batteries cover to place.

Important: The remote control will not operate unless at least 10 minutes pass between removing the old batteries and installing the new ones.



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