meitav-tec

FMHC220-FC-MDB03

Modbus-RTU

Flush mount, 230VAC thermostat, for Fan Coil B.M.S. applications, with Modbus protocol

General

The FMHC220-FC-MDB03 is a highly versatile, stand alone thermostat , suitable for Building Management System application, with Modbus communication protocol.

With multiple, selectable modes of operation, the FMHC220-FC-MDB03 offers suitability to 2-Pipe, 4-Pipe or no valve Fan Coil system, electrical heating element option, and can function as either Coo/Heat or Cool Only thermostat.

Using DIP switch, technician can select between applying Auto-Change-Over sensor, or alternatively utilizing a contact input for Economy mode to save energy. In addition, it offers the Auto-Fan feature to work at either Cool, or Heat or at both. Additional features, such as Set Point Temp. Limits, Dead Zone and Room Temperature Offset are all implemented and changeable.
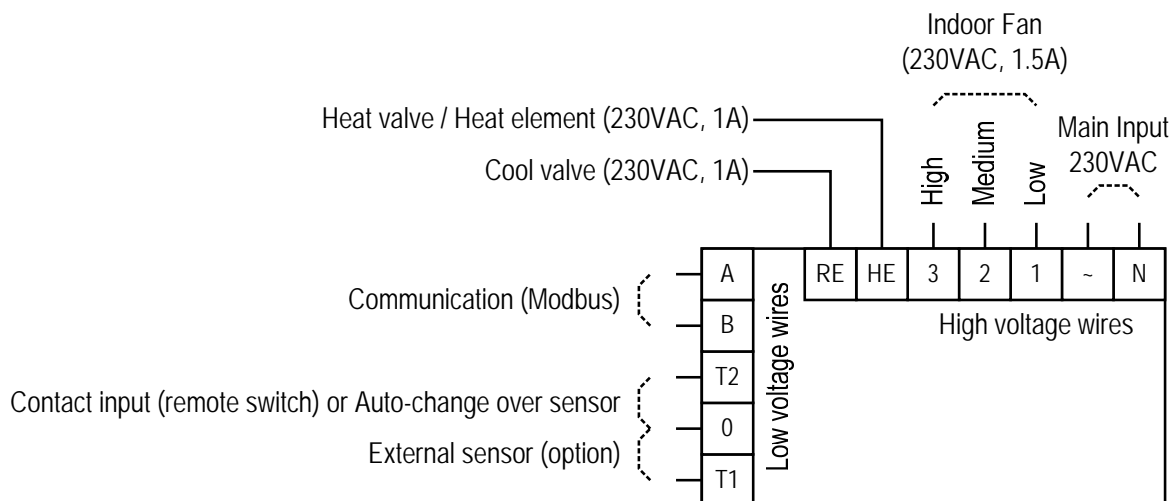
Overall, the FMHC220-FC-MDB03 offers numerous options, nonetheless setting is simple and user friendly.

Features

- Flush mount, 230VAC thermostat
- 2 separate outputs for Cool & Heat
- DIP switch selectable options:
  * Auto-Change-Over sensor or Contact input
  * 2-pipe or 4-pipe system
  * 1 or 3 fan speed control + Auto Speed
  * With or without Auto-Change-Over mode
  * Set point & room temp. display on LCD , or set point temp. display only
  * Always Auto-fan or Auto-fan selectable
  * Internal or external temperature sensor
- Modes: Cool/ Heat / Auto- Change-Over/ Fan Only
- Contact input changes to Economy mode or turns unit off (Optional)
- Cool Only thermostat – option
- Electrical heater - option
- Disable Fan operation – option (only in Cool, only in Heat, or in both)
- Set point limits – 10…30°C
- 3 Auto-Fan types:
  * Auto-fan in Cool & Heat
  * Auto-fan only in Cool
  * Auto-fan only in Heat
- Password for protected setting
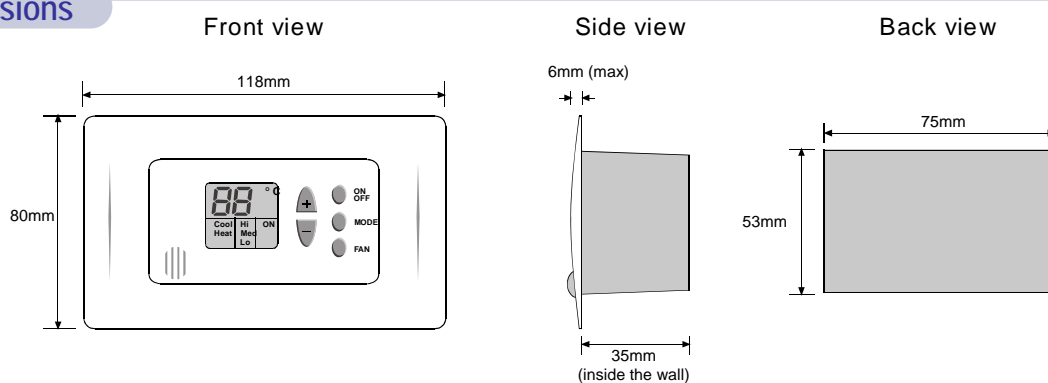- Pushbutton beeper – option
- Hand held remote control (RT03) - option

Electrical Diagram

Indoor Fan (230VAC, 1.5A)

Heat valve / Heat element (230VAC, 1A)

Cool valve (230VAC, 1A)

Main Input 230VAC

A		RE	HE	3	2	1	~	N

High: 3, Medium: 2, Low: 1

Communication (Modbus) — A, B

Low voltage wires

High voltage wires

Contact input (remote switch) or Auto-change over sensor — T2, 0

External sensor (option) — T1

Specifications

Temperature Range	10° - 30°C	Accuracy	±1°C
Weight	0.200 Kg	Plastic	PC/ABS
Scale	°C	Flammability	UL94V-0
Color	White/Black/Silver/other	Temperature Input	Thermistor 50K@25°C

Dimensions

Front view — 118mm, 80mm

Side view — 6mm (max), 35mm (inside the wall)

Back view — 75mm, 53mm

Cool Heat, Hi Med Lo, ON, ON OFF, MODE, FAN

Accessories

Part Number	Description
TS01	External Temperature Sensor - 80 cm Cable
TS02	External Temperature Sensor - 300 cm Cable
RS01	Room temperature sensor
RT03	Hand held remote control

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