

## Features

M/FCU01.10.1 module combine FCU control with floor heating control, it has high-medium-low fan speed and cooling and heating control if selected FCU function in ETS, it has 7 channels floor heating control if selected by ETS, supports 7 digital temperature sensors.

- The FCU controller and 7 channels floor heating control
- 7 channels digital temperature sensor.
- Can be configured for 5 channels relay output and 2 channels DC0-10V.
- Fan speed and valve status report
- 2 channels DC 0-10V for FAN speed or 0-10V valves

## Important Notes

- **Special Programming** – This device is designed for professional KNX installation. It must be programmed by ETS software.
- **Type of FAN** - check the fan of type, make sure the type is AC or 0-10V, connect to correct terminal
- This module need unique address from digital sensor
- **Check Connections** – Re-tighten all connections after installation.

## Installation Steps

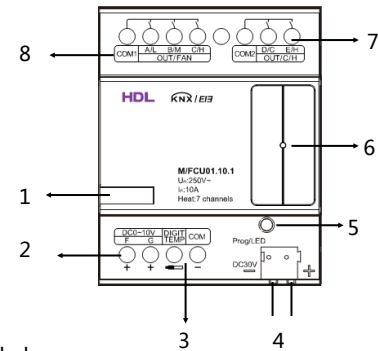
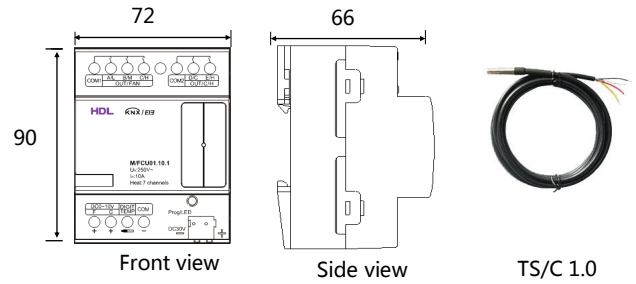
- Labeling for AC power wires, loads wires and KNX Bus wire
- Mount the device on a DIN rail of DB
- Connect wires for loads and AC power
- Make sure there is no circuit short or open.
- Make sure the KNX cable type is correct and has no circuit short
- Connect bus cables. Make sure the color of wire same as definition of Bus
- Tidy the all Wire and separate Bus wire from AC power wire

## Product Specifications

- **Working Voltage:** 21-30V DC
- **Communication:** KNX/EIB
- **Dynamic current:** <20mA
- **Static current:** <5mA
- **Temperature sensor:** two wires digital sensor (18B20)
- **Outputs:** 5 channel 10A relay outputs  
2 channel 0-10V DC outputs (10mA / channel)
- **Fan speed:** High, Medium, Low
- **HVAC working mode:** Heating, Cooling
- **HVAC operation mode:** Standby mode, Comfort mode, Night mode, Frost protection
- **KNX Terminal:** – Wago 243 (Red/Grey) 0.6 – 0.8mm Diameter Single Core
- **Operation times:** >1000000
- **Output Terminals:** Line in, Line out for each channel 2.5-4mm<sup>2</sup>
- **Compliance:** CE, KNX
- **Dimensions:** H90mm x W72mm x D 66mm
- **Housing Material:** Flame-retarded nylon
- **Working Temperature:** -5°C~45°C
- **Working Relative Humidity:** 10%~98%
- **Storage Temperature:** -40°C~55°C
- **Storage Relative Humidity:** 10%~98%
- **IP class:** IP20

## Types

M/FCU01.10.1



- 1- Label area
- 2- Channel F, G, output DC0-10 voltage
- 3- Local temperature, can connect with 7 digital temperature sensor
- 4- KNX/EIB interface
- 5- Programming button & Red programming LED & Green Local temperature LED
- 6- Green working LED
- 7- Channel D, E (Heating or Cooling or Relay output)
- 8- Channel A, B, C (Fan speed or Relay output)



**WARNING**

## Safety Attention

- Screw down strength should not exceed 0.4Nm
- Current in relay channel is less than 10A
- Relay channel need protect by proper MCB or fuse
- Installation position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface of this module
- Do not get AC240V voltage into KNX/EIB Bus wire, it will damage all devices in the system
- Ensure good ventilation
- Avoid contact with liquid and aggressive gas