

Parameters

Electrical parameters	
Working Voltage	21~30VDC
Communication	KNX/EIB
Dynamic current	< 20mA
Static current	< 5mA
KNX terminals	KNX Bus Terminal- (Red /Grey)0.6 - 0.8mm Diameter Single Core
Temperature sensor	two wires digital sensor (18B20)
Fan speed	High, Medium, Low
HVAC working mode	Heating, Cooling
HVAC operation mode	Standby mode, Comfort mode, Night mode, Frost protection
Operation times	>1000000
Output Terminals	Line In, Line Out for each channel 2.5-4mm ²
Outputs	5 channel 10A relay outputs 2 channel 0-10V DC outputs (10mA / channel)
Environmental Conditions	
Working temperature	-5°C~45°C
Working relative Humidity	10%~98%
Storage temperature	-40°C~+55°C
Storage relative humidity	10%~98%
Approved	
CE, RoHS	
KNX	
Product information	
Dimensions	H90mm x W72mm x D 66mm
Housing Material	Flame-retarded nylon
Installation	35mm Din rail installation
IP Protection	IP20

Important Notes

- **Special Programming** – This device is designed for professional KNX installation. It can only 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.

Overview



M/FCU01.10.1 module are combine FCU control and floor heating control, it has High-Medium-Low Fan Speed and also cooling and heating control if selected FCU function in ETS , it has 7 channels floor heating control if selected by ETS, Support 7 digital temperature sensors.

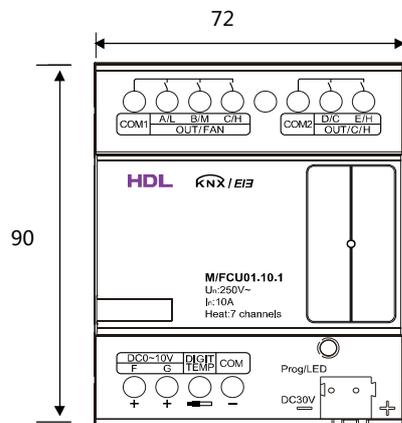
Functions

- 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

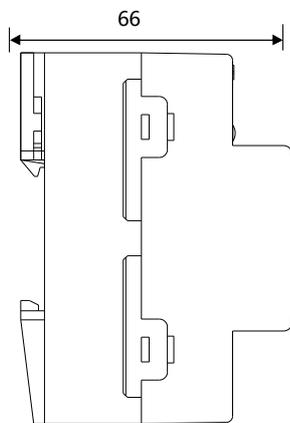
Installation Steps

- 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

Layout and Wiring



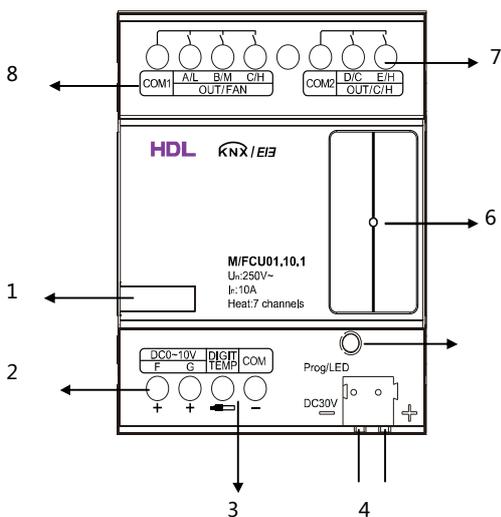
Front view



Side view



TS/C 1.0



- 1- Label area
- 2- Channel F, G, output DC0-10 voltage
- 3- Local temperature, can connect 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)

Safety precautions



- Screw down strength is less than 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 this module
- Do not get AC240V voltage into KNX/EIB Bus wire , it will damage all of devices in system
- Assure a good ventilation circumstances
- Rain, liquid, and aggressive gas are not allowed to close to it

