

Features

HDL-MFH06.432 is a 6 channels floor heating controller. Each channel has the output options of Relay and 0-10V. It has built-in PI Controller, support 13 digital temperature sensor. It can be used to control the floor heating and indoor temperature, and also it has the function of over heat protection for the floor.

- Use digital temperature sensor DS18B20 to detect the temperature, maximum length of the sensor cable is 100 meters.
- 6 channels of separate PI Control, has floor heating, floor cooling function.
- Support electrical AC heat valve and 0-10V electrical heat valve.
- The range of temperature control is 5~40°C , the accuracy is 0.5°C
- Support flush function, manually flush or timer controlled .
- Support master and slave mode
- Optional of multiple mode : Timer、away、home , normal etc
- Maximum and minimum heating value can be set.
- Expand control: command can be sent to external high power relay, to control the high power heater.
- Support Floor over heat protection, support temperature sensor failure protection.
- Online upgrading from BUS is available

Important Notes

- Bus cable- HDL Bus/KNX Cable, 0.8mm Single Core Copper cable
- Bus Connection - Series connection (hand by hand)
- External connected DS18B20 need 3 cables, make sure the 3 cables in a good condition of insulation. Maximum 13 temperature sensors can be connected in the module.
- Temperature sensors can be parallel-series connect to the module
- Pay attention to the working voltage and type (Normal close, normal open) of the electrical heat valve

Installation Step

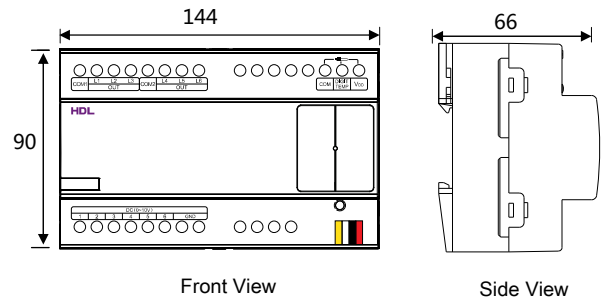
- 35mm Din Rail Installation, inside DB Box
- Make the remark of AC Power input and the electrical heat valve
- Connect HDL BUS , Temperature sensor and electrical heat valve

Product Specification

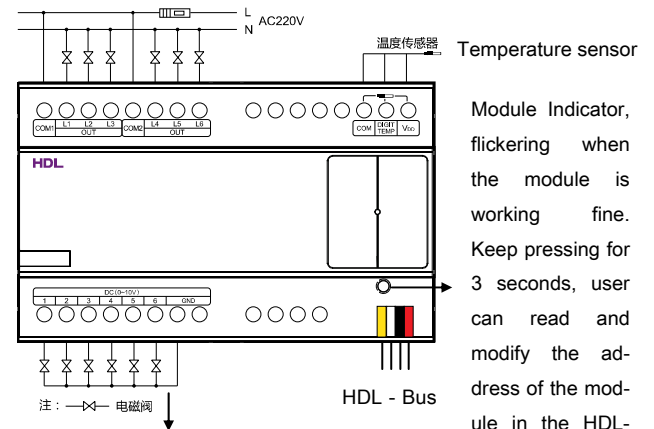
- Working Voltage : DC24
- Dynamic BUS Power Consumption : 150mA/DC24V
- Static BUS Power Consumption : 30mA/DC24V
- Output channels : 6
- DC 0-10V output current : 10mA
- Relay output current: 1A
- Relay Unit Life time : 5000000 times
- Working Temperature : 0~45°C
- Working Relative Humidity : 20%~90%
- Storage Temperature : -40°C~+55°C
- Storage Relative Humidity : 10%~93%
- Dimension : 144mm×90mm×66mm
- CE Certification
- Protection Degree: IP20

Type and wiring

HDL - MFH06.432



Relay Output channel, connect to floor cooling or heating system



HDL-Bus Definition for cable

CAT5/CAT5E	Bus	HDL Bus/KNX Cable
Brown White/ Orange White	COM	Black
Blue white/ Green White	DATA-	White
Blue/Green	DATA+	Yellow
Brown/Orange	DC24V	Red



WARNING Safety Attention

- Screw down strength is less than 0.4Nm
- Connect breakers or fuses for the electrical heat valve
- Maximum current for each channel is 1A
- Installation: inside DB Box
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- Do not get AC240V voltage into HDL - Bus interface, temperature sensor, 0-10V output terminals, otherwise 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