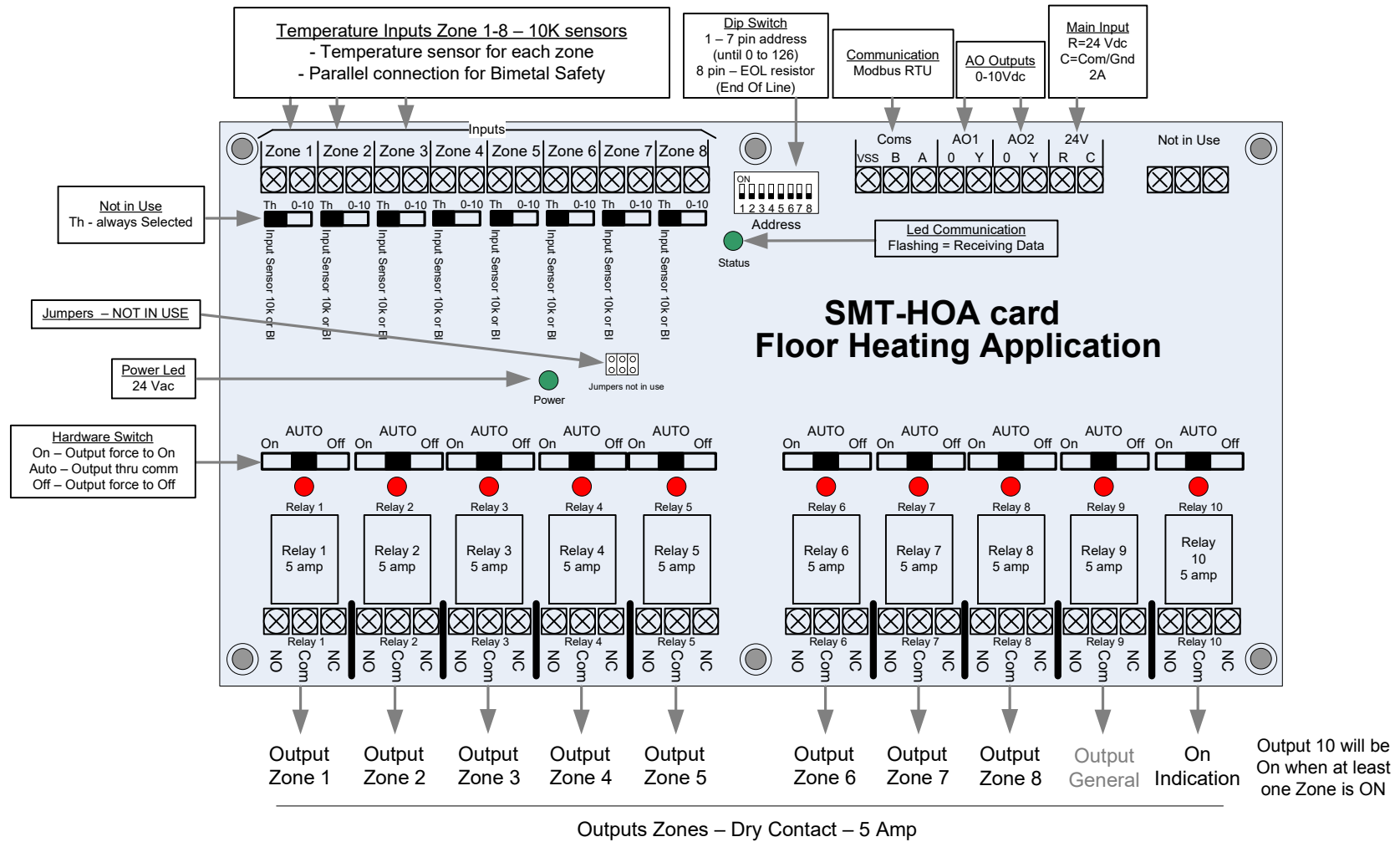


Underfloor Heating Controller – GS-SMT-HOA

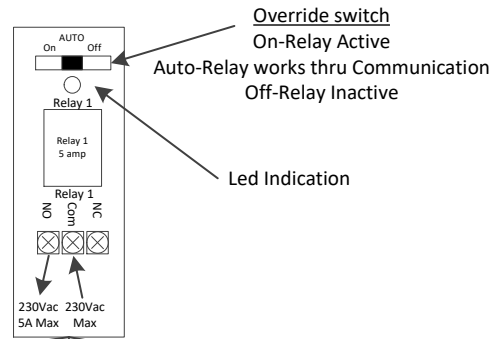
Electrical Drawing



Outputs Connections

Zone Output
 Dry Contact – Up to 230Vac Max to Com
 (0,12Vdc,24Vdc-Vac,110Vac,230Vac)
 Output Up to 230Vac 5A Max

Contacts
 NO – Normally Open
 NC – Normally Close



Override switch
 On-Relay Active
 Off-Relay Inactive

Led Indication

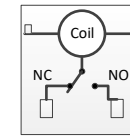
Electrical



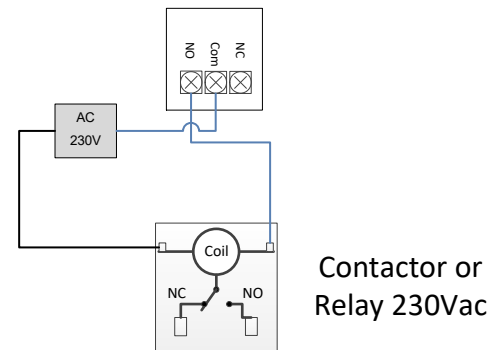
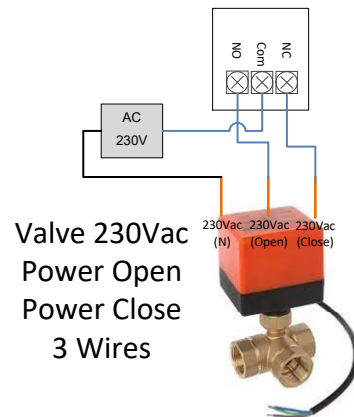
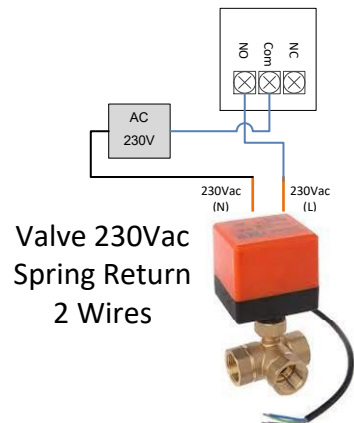
Valves



Contactor



Sample Connections

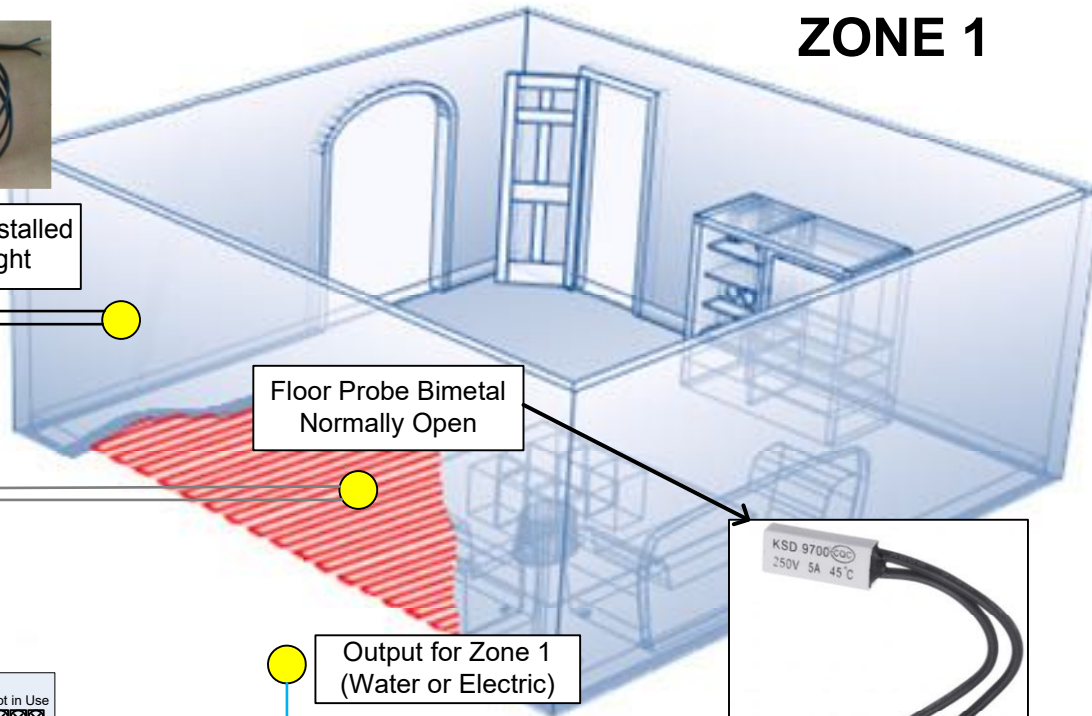


How to connect Floor Bimetal for Safety (optional)

The temperature sensors used in the controller are 10K type 2

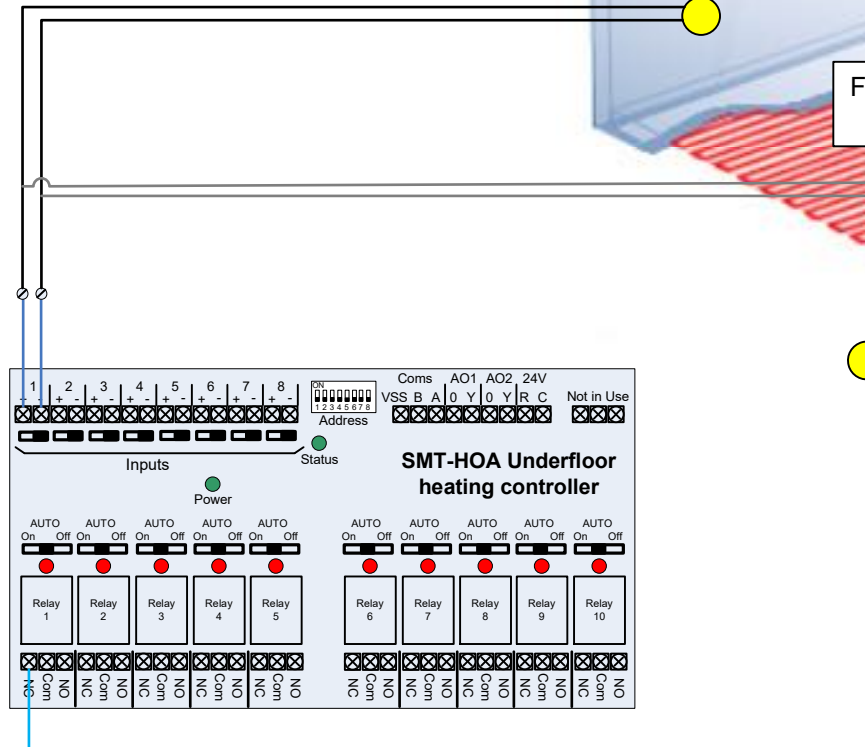


Room Temp sensor installed at 5 ft (1.5 mts) height



Floor Probe Bimetal Normally Open

Output for Zone 1 (Water or Electric)



SMT-HOA Underfloor heating controller

Inputs: 1, 2, 3, 4, 5, 6, 7, 8

Coms: AO1, AO2, 24V

Relays: Relay 1 to Relay 10

Terminal Block: VSS, B, A, 0, Y, 0, Y, R, C, Not in Use

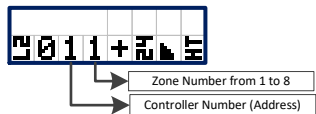
Bimetal sensor – Normally Open (Not Supplied by CoolAutomation)

There are many options in the Market –
 Below temperature requested = Contact Open
 Above temperature requested = Contact Close
Example – Bimetal Sensor 26C – Normally open – when 26C is reached it will SHORT the input and HOA controller will turn OFF the specific zone



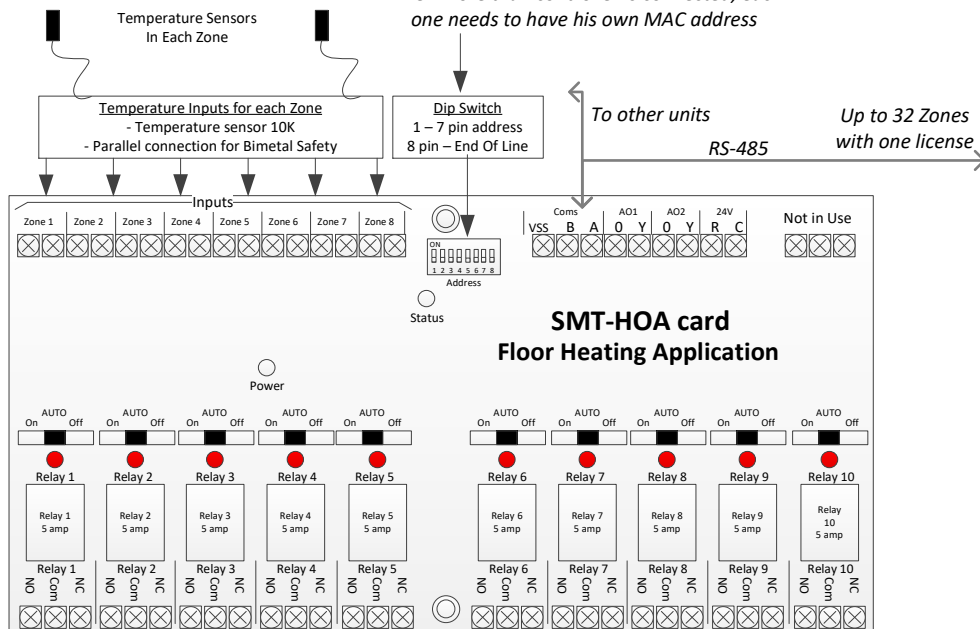
Connecting to Cool Automation Units

When SMT-HOA is connected to Cool Automation units, the zones are discovered automatically,



The zones are discovered ONLY when sensors are connected and temperature is in correct range

When more than controller is connected, each one needs to have his own MAC address



8 Zones



CoolLinkBridge



L1	Vdc	L2	Mod
A B	+ -	1(A) 2(B)	A B

A B	A B	A B	A B	A B
L7	L6	L5	L4	L3



CoolMaster

Set up commands for Cool Units

Command >line type Lx GRNS
Response --OK

Home Automation Systems

- AMX
- BitWise
- Control 4
- Crestron
- Elan Systems
- Leviton
- Hai
- Lutron
- On Controls
- Philips Dynalite
- Push by Schneider Electric
- RCI Automation
- Savant
- Smart-Bus
- Tis Smart Home
- Vantage
- and more

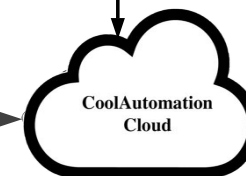
RS-232/IP

KNX Option

Internet Router
(Provide by others)



Mobile



CoolLinkBridge



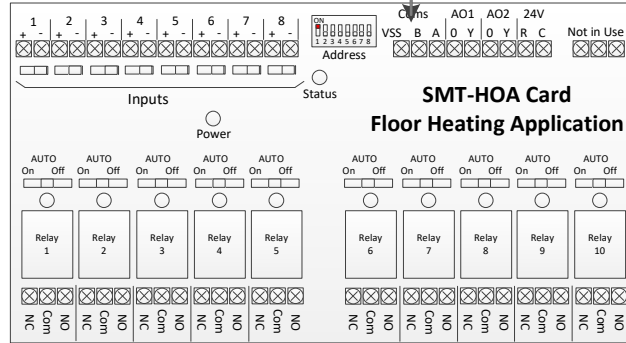
L1	Vdc	L2	Mod
A B	+ - 1(A) 2(B)	A B	



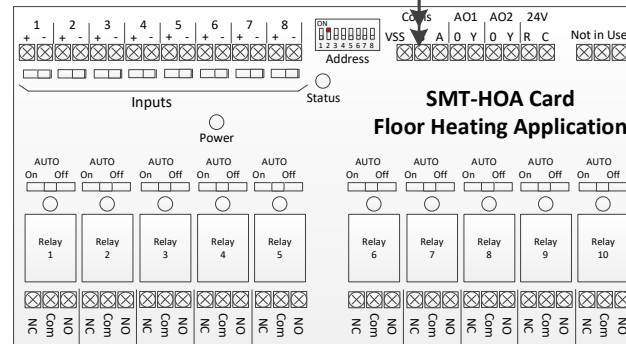
COOLAUTOMATION
THE INTERNET OF CLIMATE (IoC)

Up to 32 Zones

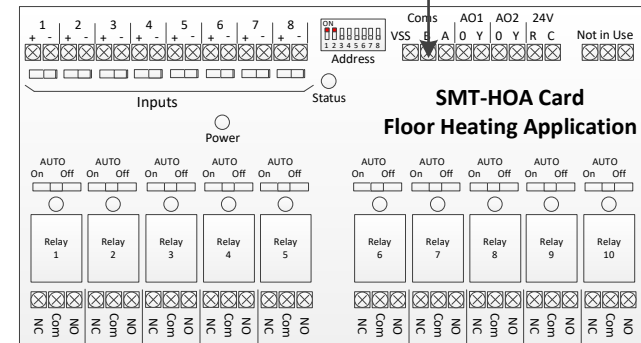
Address 1
Zones 11-18



Address 2
Zones 21-28



Address 3
Zones 31-38



Cable Rs-485

Dimensions

