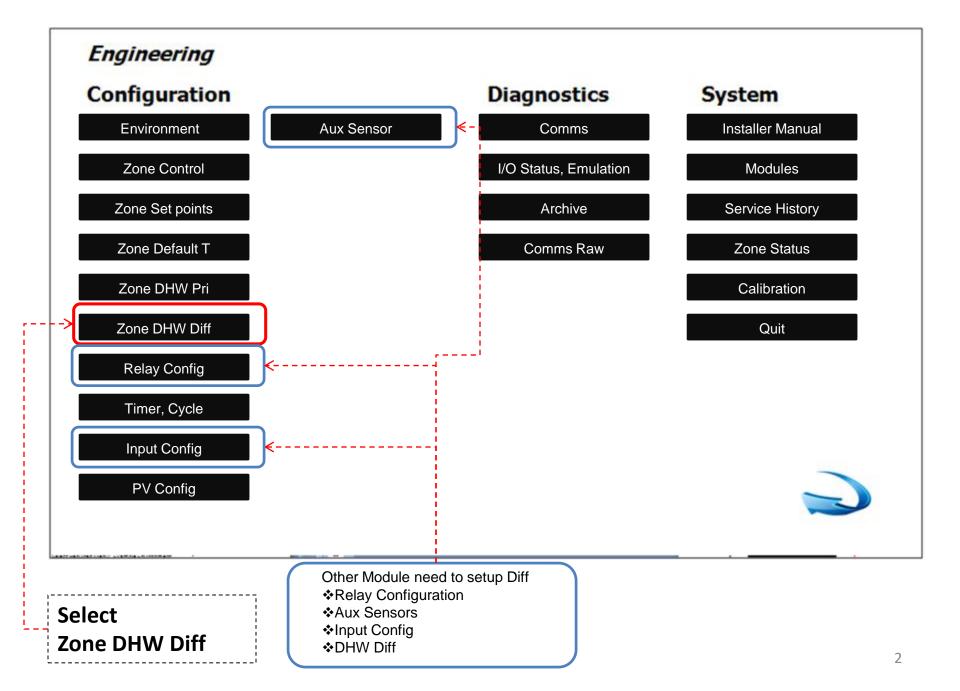


Differential DHW & Energy Source

Touch Screen CC200 Ver 18.6.1.105



Differential : DHW & Energy Source

Overview

Any DHW zone can have a "Aux Sensor" attached to addition heat source (e.g. Solar Pane , Landlord Plate Heat Exchanger , etc).

If the difference between the [DHW Cylinder and the Heat Source] is Greater Than [Hi Δ T setting] Then Diff Flag is Active

Diff Flag remains active until between the [DHW Cylinder and the Heat Source] is Less Than [Lo ΔT setting]

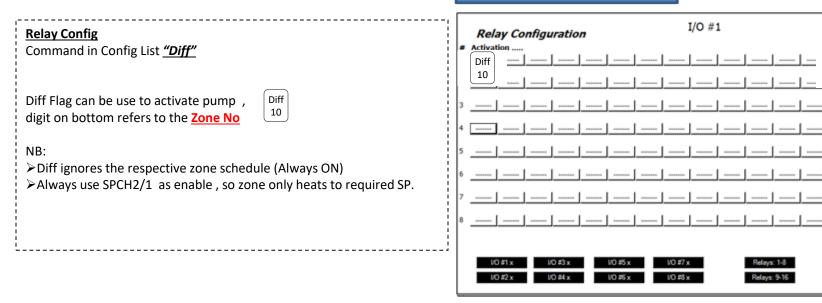
Zone DHW Diff

Zone DHW Differential Zn Name Source Idx Port Low High Not a DHW Zone DHW Aux_Sensor - 1 Not a DHW Zone Not a DHW Zone 5 6 Not a DHW Zone Not a DHW Zone 7 Not a DHW Zone 8

SP Ch2

10

Relay Configuration



Differential : Set Up

Step 1:		Assign a DHW Zone e.g. Zone 10					
Za	one Control	Deactivate	-				
Zn	Name	Type	Sched	Source	ZnRef	IORef	Port
1	Zone 1		Living	Digt	1		
2	DHW	DHW	TK-	Digt	2		
3	Zone 3	- Concose	Living	Digti	3		
4	Zone 4		Living	Digt	4		
5	Zone 5	UFH	Living	Digtl	5		
6	Zone 6		Living	Digtl	6		
7	Zone 7		Living	Digt	7		
8	Zone 8		Living	Digtl	8		

<u>Step 2</u>: Assign a Differential Ref sensor i.e. Aux Sensor

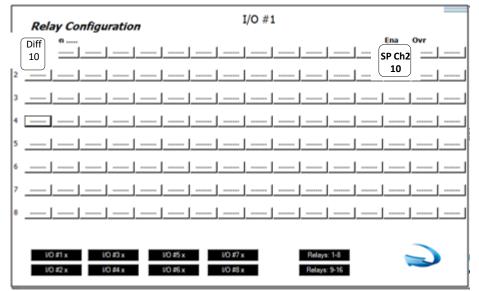
- In Environment Tab : Enter Qty of Aux needed i.e.
- Make this Aux sensor a Type : Name: Ref Temp



Step 3 Access "Zone DHW Diff" Tab

- Against the DHW zone assign Source as AUX
- Idx is associated wit IDX in aux Sensor Tab
- High(e.g. 5) Heat DHW is the Ref Temp is above 5 °C above DHW
- Low (e.g.) Stop heat DHW if Ref Temp fall to within 2 °C above DHW

Not a DHW Zone		Idx	Port	High	Low	
DHW	Aux_Sensor	7		5	2	
Not a DHW Zone				a a se a Longe de la se a a se a		
Not a DHW Zone						
Not a DHW Zone			Emdelle			
Not a DHW Zone						
Not a DHW Zone						
Not a DHW Zone						
l ay Config mmand in Confi ff Flag can be us git on bottom re B: Diff ignores the l	e to activate pu fers to the <mark>Zon</mark>	e No	•	ays ON	1)	



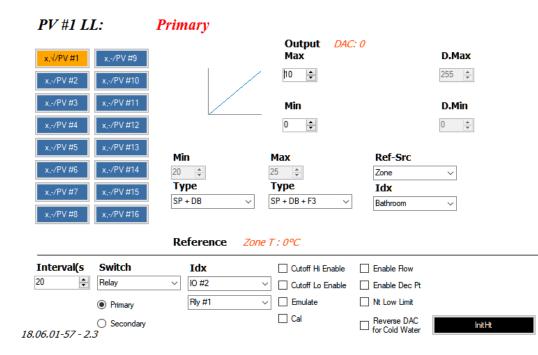
Diff – Zone

Application:	Diff switch FCU to heating
Comments:	 If Room SP is ΔT(e.g. 5°C) above same room air temp, switch FCU to cooling Limit the above operation , if room temp is above a limit e.g. 24°C)
Solution	0-10v LL1 – Cooling (as usual) Switch : Relay x:x (R2:1 Virtual I/O) Activate By Differential between SP & Air 0-10v LL2 – Heating (Factoring in Diff user setting)

Diff – Zone LL1 – Cooling (as usual)

0-10v LL1 – Cooling (as usual)

Switch : Relay x:x (R2:1 Virtual I/O) Activate By Differential between SP & Air





Sheet	0	Title	IO_Pv1_LL1
Ref	Dove House Tech	Client	Alternative Heat
Date	10/08/2018	Contact	0

Diff – Zone Set up Diff

Comments:

Diff between air & SP (Currently Ref is I/O probe or Aux Sensor) Diff Hi & Low (If ref Zone air): Hi & Low valve would be same = 5

Zoi	ne Differential				
Zn	Name	Source	Idx	Port	High Low
1	Zone 1	Zone	Ch 1	7	5
2	Zone 2	None			
3	Zone 3	None			
4	Zone 4	None			
5	Zone 5	None			
6	Zone 6	None	•		
7	Zone 7	None			
8	Zone 8	None			
	-8 9-16 17-24				
		25-32			

Diff – Zone Set up LL2

0-10v LL2 – Heating (Factoring in Diff user setting)

