

Set-Up Instructions

MULTICONTROLLER 0664040_R02



page Description of set-up options:

- 3 Temperature 0-10V. Use this set-up if you want to regulate the ventilator with 0-10V.
- 4 Temperature On-Off . Use this set-up for temp. control by on/off connected to a 5 step controller
- 5 PTH Pressure Transmitter. Use this set-up if you want to maintain a constant pressure in the ventilation system/duct
- 6 Humidity. Use this set-up if you want to ventilate to contain a certain Humidity level.
- 7 CO2. Use this set-up if you want to ventilate to contain a certain Co2 ppm level in the room.
- CO2 + temp 0-10V. Use this set-up if you want to ventilate at a certain CO2 or/and temperature level in the room. (If either the CO2 level or the temperature becomes too high, the output signal will increase).

Reset Controller

9

Note! It is possible to connect a PIR sensor on set-up options 01 - 09. The PIR sensor will change between 2 set points. This may be used as a means of saving energy when a room is not occupied.

The PIR sensor must be connected to terminals 20 and 21.

The first time the controller is connected to power, the function of the controller is selected. Subsequently the operation parameters will be adjusted to a standard set-up. A new quick set-up can be done by resetting the unit (D4).

MultiController selection:	Output:
01 Temperature	0-10V output
02 Temperature 1 heating element:	I pulse output 0/10V
03 Temperature 2 heating elements:	2 pulse output 0/10V
04 Temperature on/off	Relay
05 Constant flow	0-10V output
06 Constant pressure	0-10V output
07 Constant humidity	0-10V output
08 Constant CO2	0-10V output
09 CO2 +Temp	0-10V output
10 Temp + Temp	0-10V output

Controller setup for Temp 0-10V

On first start-up choose function **01 temperature 0-10V.**

- I. Press menu. (ESC)
- 2. Select **C User** by pressing arrow down.
- 3. Press enter.
- 4. Select CI Regulator I Norm Setpoint by pressing arrow down.
- Press enter. (*)
- 6. Now change the temp. °C value by pressing arrow up or down to increase of decrease the value to your preference .
- 7. Press enter to confirm.
- 8. Press esc once to go back to the main menu. (ESC)
- 9. Select **E Service** by pressing the arrow down.
- 10. Press enter.
- 11. Enter the code **5550** by pressing the arrow up button and confirm it with enter to set the numbers.
- 12. When in service menu select **E2 Reg1 direction** with the arrow down button.
- 13. Press enter.
- 14. Select **inverted** by pressing the arrow up button.
- 15. Press enter to confirm.
- 16. Press esc (ESC) twice to leave the menu, your controller is now operational.

Schedule on page 12

Controller behavior:

Temp. 0-10V;

When the temp. exceeds the set point the voltage will increase as the temp keeps rising the controller will increase the output voltage and enhances the fan rpm. When the temp stops rising but still higher then setpoint the output voltage will stay the same until the temp in at setpoint value.

Controller setup for Temp on/off

I. Press menu. (ESC)

3. Press enter.

Press enter. (49)

10. Press enter.

13. Press enter.

5

your preference.
7. Press enter to confirm.

On first start-up choose function **01 temperature 0-10V.**

4. Select CI Regulator I Norm Setpoint by pressing arrow down.

output voltage will stay the same until the temp in at setpoint value.

2. Select **C User** by pressing arrow down.

8. Press esc once to go back to the main menu.9. Select **E Service** by pressing the arrow down.

14.	Select inverted by pressing the arrow up button.①
	Press enter to confirm.
16.	Select E10 PID P with the arrow down button. 🖤
17.	Press enter.
18.	Now change the value to 1 by pressing the arrow down button.
19.	Press enter to confirm
20.	Press esc (ESC)
21.	Select E10 PID reg time (H) with the arrow down button. 🕦
22.	Press enter.
23.	Now change the value to I by pressing the arrow down button. 🖤
24.	Press enter to confirm.
25.	Press esc (ESC) twice to leave the menu, your controller is now operational.
26.	The relay will close at when the setpoint is exceeded.
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Sch	redule on page 13
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Con	troller behavior:
Tem	np. on/off ;
	en the temp. exceeds the set point the voltage will increase as the temp keeps rising the controller
	increase the output voltage and enhances the fan rpm. The Relay will close when the output voltage
	2v or higher, and will open below 0.2V. When the temp stops rising but still higher then setpoint the

6. Now change the temp. °C value by pressing arrow up or down to increase of decrease the value to

11. Enter the code **5550** by pressing the arrow up button and confirm it with enter to set the

12. When in service menu select **E2 RegI direction** with the arrow down button.

Controller setup for Pressure transmitter PTH

On first start-up choose function **06 Constant pressure.**

- I. Press menu. (ESC)
- 2. Select **C User** by pressing arrow down.
- 3. Press enter.
- 4. Select CI Regulator I Norm Setpoint by pressing arrow down.
- 5. Press enter.
- 6. Now change the pressure Pa value by pressing arrow up or down to increase of decrease the value to your preference.
- 7. Press enter to confirm.
- 8. Press esc once to go back to the main menu. (ESC)
- 9. Select **E Service** by pressing the arrow down.
- 10. Press enter.
- 11. Enter the code **5550** by pressing the arrow up button and confirm it with enter to set the numbers.
- 12. When in service menu select **E16 sensor1 value at max** with the arrow down button.
- 13. Press enter.
- 14. Now change the value by pressing arrow up or down to increase of decrease the value . (this value should be the same max pa value as the transmitter. (transmitter PTH default is 2500 to change read the manual)
- 15. Press enter to confirm.
- 16. Press esc (ESC) twice to leave the menu, your controller is now operational.

Schedule on page 14

Controller behavior:

Pressure. 0-10V;

When the pa drops below the set point the voltage will increase and enhances the fans rpm. When the pressure is at set point the voltage output will stay steady until there occur a change in the system that increase or decreases the pressure.

Controller setup for Humidity

On first start-up choose function 07 Constant humidity.

- I. Press menu. (ESC)
- 2. Select **C** User by pressing arrow down.
- 3. Press enter.
- 4. Select CI Regulator I Norm Setpoint by pressing arrow down.
- 5. Press enter.
- 6. Now change the % humidity value by pressing arrow up or down to increase of decrease the value to your preference.
- 7. Press enter to confirm.
- 8. Press esc (ssc) twice to leave the menu, your controller is now operational.

Schedule on page 15

Controller behavior:

Humidity. 0-10V;

When the humidity % rises above the set point the voltage will increase and enhances the fans rpm. When the humidity % is at set point the voltage output will stay steady until there occur a change.

Controller setup for Co2

On first start-up choose function 08 Constant Co2.

- I. Press menu. (ESC)
- 2. Select **C** User by pressing arrow down.
- 3. Press enter.
- 4. Select CI Regulator I Norm Setpoint by pressing arrow down.
- 5. Press enter.
- 6. Now change the ppm value by pressing arrow up or down to increase of decrease the value to your preference .
- 7. Press enter to confirm.
- 8. Press esc (ESC) twice to leave the menu, your controller is now operational.

Schedule on page 16

Controller behavior:

Co2. 0-10V;

When the Co2 ppm rises above the set point the voltage will increase and enhances the fans rpm. When the Co2 ppm is at set point the voltage output will stay steady until there occur a change in the system that increase or decreases the Co2 ppm.

Controller setup for CO2 + temp 0-10V

On first start-up choose function **09 Co2+Temp.**

- I. Press menu. (ESC)
- 2. Select **C User** by pressing arrow down.
- 3. Press enter.
- 4. Select CI Regulator I Norm Setpoint by pressing arrow down.
- Press enter.
- 6. Now change the ppm value by pressing arrow up or down to increase of decrease the value to your preference .
- 7. Press enter to confirm.
- 8. Select CII Regulator2 Norm Setpoint by pressing arrow down.
- 9. Press enter.
- 10. Now change the temp. °C value by pressing arrow up or down to increase of decrease the value to your preference .
- II. Press enter to confirm.
- 12. Press esc (ESC) twice to leave the menu, your controller is now operational.

Schedule on page 17

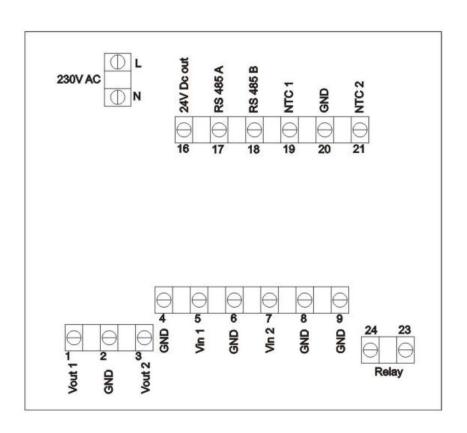
Controller behavior:

Co2+Temp. 0-10V;

When the Co2 ppm or/and temp. °C rises above the set point the voltage will increase and enhances the fans rpm. When the Co2 ppm or/and temp. °C is at set point the voltage output will stay steady until there occur a change in the system that increase or decreases the Co2 ppm or/and temp. °C.

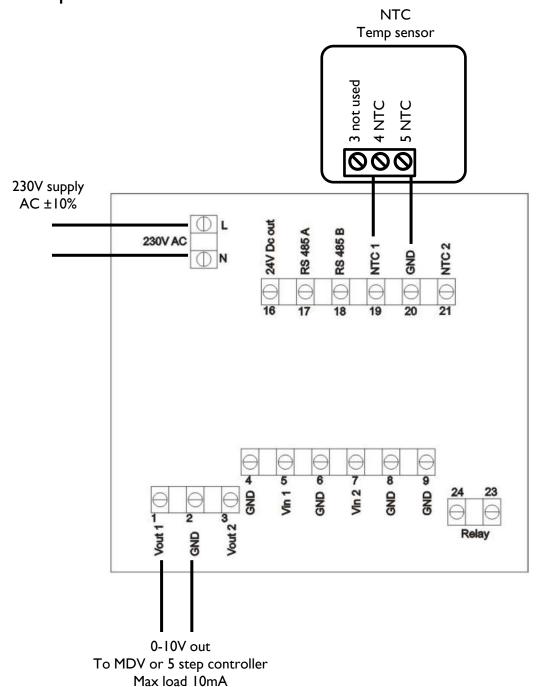
Reset controller

- I. Press menu.
- 2. Select **D Display** by pressing arrow down.
- 3. Press enter.
- 4. Enter the code **5550** by pressing the arrow up button and confirm it with enter to set the numbers.
- 5. Select **D4 factory reset** by pressing arrow down
- 6. Press enter.7. Confirm by pressing enter.
- 8. Select English as restart language by pressing enter
- 9. The controller will restart to the quick set up mode

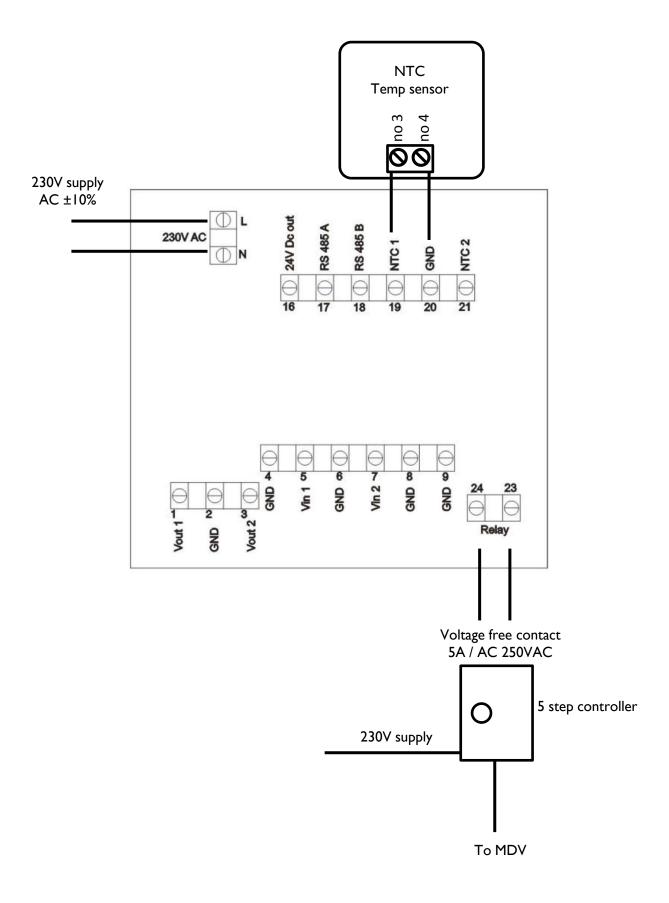


Terminal nos	Description	Comments	
1 and 2 (Vout1)	0-10V output 1	Load max 10mA	
3 and 4 (Vout2)	0-10V output 2	Load max 10mA	
5 and 6 (Vin1)	0-10V input 1	7k ohm input impedance	
7 og 8 (Vin2)	0-10V indgang 2	7k ohm input impedance	
L and N	Connection of power supply	230V AC ±10%	
16	24V power outlet	+24VDC max 100mA	
17 and 18	RS 485 Modbus		
19 and 20	NTC1 temperature sensor	22K NTC	
21 and 20	NTC2 temperature sensor / Alarm input / PIR input	22K NTC / switch	
2,4,6,8,9,20	0V, GND		
23 and 24	Voltage free contact. Function depending on model.	5A-AC1, 250VAC	

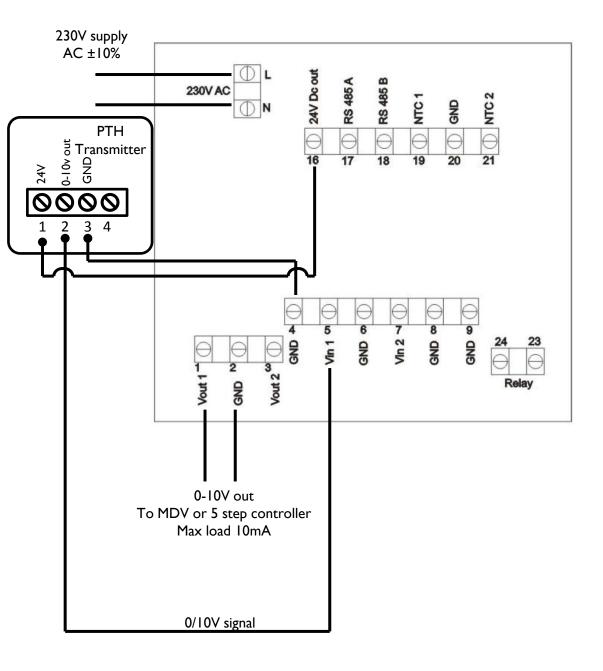
Temperature 0-10V



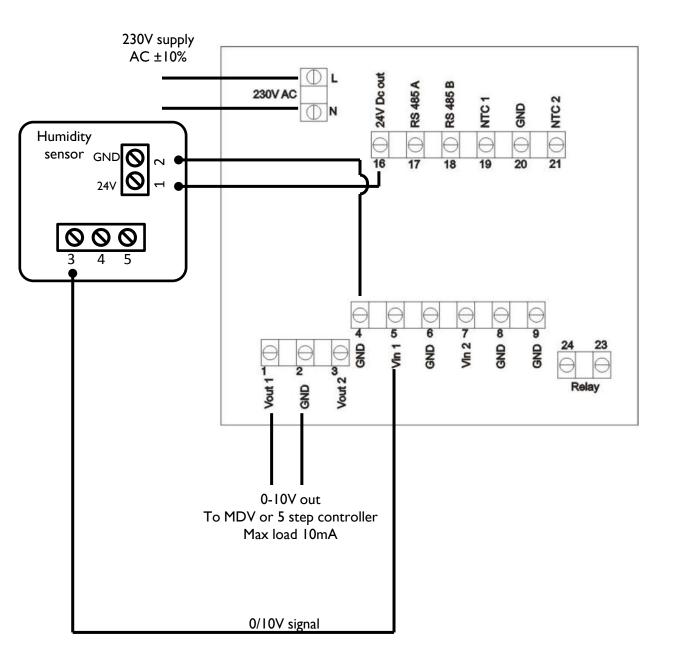
Temperature on/off

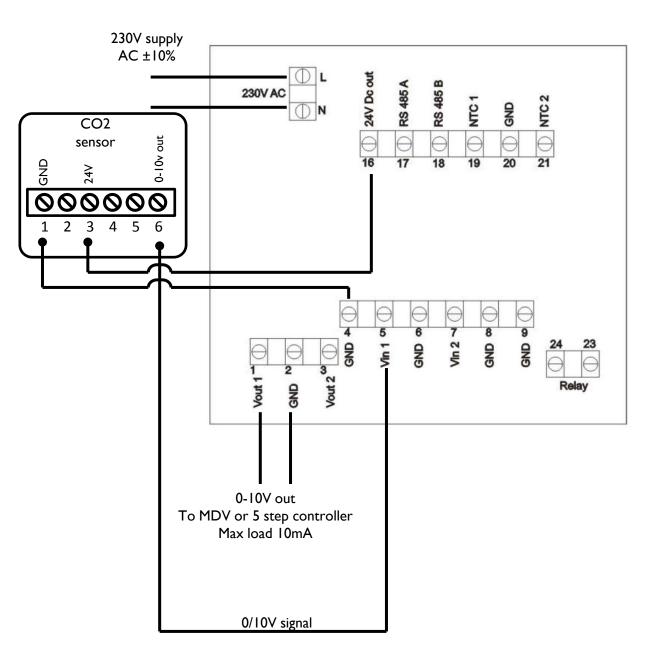


Pressure transmitter

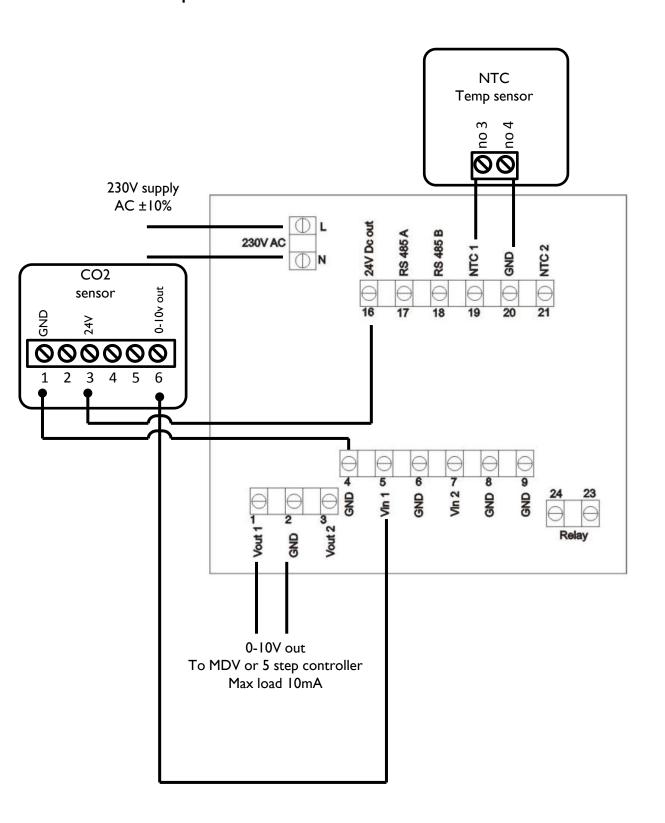


Humidity





CO2 + Temp.



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