



DanX 1/2/3 Touch Panel

Installation / User manual

Rev. 1.0 - 108146



Dantherm[®]
CONTROL YOUR CLIMATE

1.0 Touch Panel general

Technical data		
Size	mm	85 x 85 x 19
Screen	''	3.5
Screen resolution	px	320 x 240
Operating temp	°C	0 - 50
IP class		20

1.1 Touch Panel installation

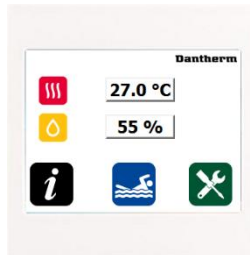
The touch panel is mounted either on a flash back or wall mounted IEC60670-1 pattress box. The electrical connection should be done in the following way:

Power off the DanX 1/2/3 unit at the main power switch. Connect the 4 terminals of the touch panel to the 4 terminals of the DanX HP or XD in the following way:

Terminal connections			
	Touch panel	DanX HP	DanX XD
1	24V+	24V	24V
2	0V	52	53
3	Modbus A	61	48
4	Modbus B	62	49

The Modbus cable to be used is a shielded twisted pair like a telephone type with a maximum length of 1000 m. The power supply should be a normal 0,5 mm² two wired cable.

Power on the DanX, wait for about 30 seconds and the following display will show up on the screen:



If the values for temperature and humidity are 0 then check on the backside of the touch screen if the Modbus signal is connected correctly.

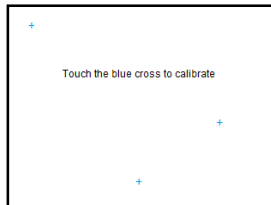
E D	Tx	blinks	Communication OK
	Rx	blinks	
E D	Tx	blinks	Switch Modbus cables
	Rx	lights	
E D	Tx	blinks	No communication
	Rx	No light	



If there is no communication check if the cables are connected to the correct terminals in the DanX unit.

2.0 Touch Panel setup

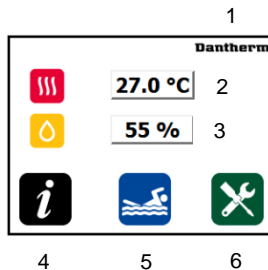
Take a pen and click on the Dantherm logo on the start screen and follow the instructions. This will calibrate the screen.



3.0 Touch panel pages

There are four different kind of pages, the start/info pages, the set point pages, the alarm page and the page for start/stop the unit.

3.1 Start page



- 1) Touch button for screen calibration
- 2) Actual room temperature
- 3) Actual room relative humidity
- 4) Touch button for Info pages
- 5) Touch button for start/stop unit and info about the unit status



Unit stopped



Pool occupied (unit is running with outdoor air)

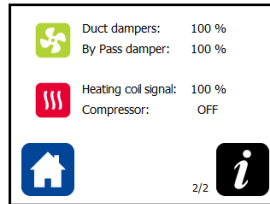
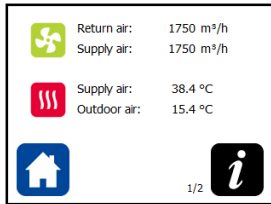


Pool unoccupied (unit is running in recirculation mode)

- 6) Touch button for set point pages

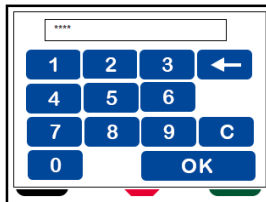
3.2 Info pages

Touch the black info button and you can now see two pages with information's about the unit. There will be no information's about the compressor on a DanX XD unit.

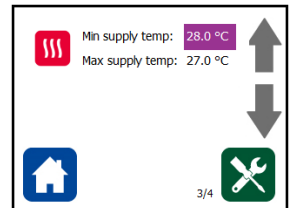
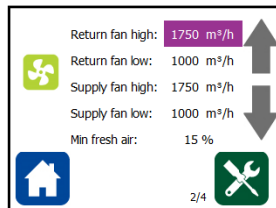
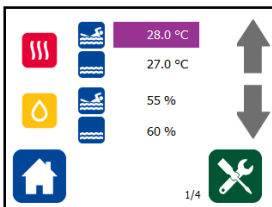


3.3 Setpoint pages

Touch the green tool button and you will be asked for a password which is **2222**.



You will now be able to set in the correct setpoints for the unit.

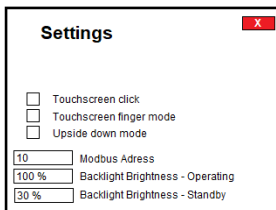
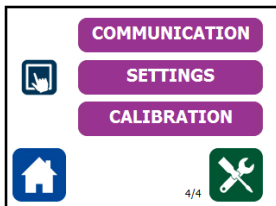


- 1) The set points for room temperature and relative humidity for occupied and unoccupied pool hall
- 2) Air volumes for supply, return and minimum outdoor air
- 3) Minimum and maximum supply temperature

IMPORTANT:

To activate the set points from the touch panel, you must set the point "BMS_SP_CONTROL" in the MVC80 controller to YES. See chapter 4.0

3.4 Touch panel settings

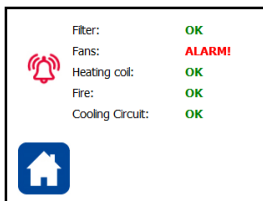
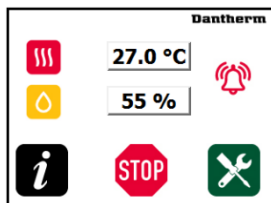


The Communication button is only for the service technician where he can check the Modbus connection between unit and touch panel.

The Settings button will open a new page where you find the following possibilities:

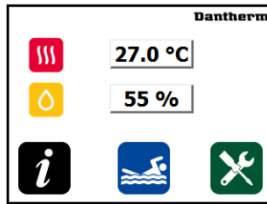
- 1) Touchscreen click. Activate this option when you want to hear a click sound when touching the screen
- 2) Touchscreen finger mode. Activate this option when you want to use your fingers instead of a pen.
- 3) Upside down mode. Here you can turn the screen by 180°.
- 4) Modbus Address. This setting should not be changed.
- 5) Backlight Brightness – Operating/Standby. Here you can set the backlight for operation and standby mode.

3.5 Alarm page



If there is an alarm a red alarm icon will be shown on the start display. By touching the icon the alarm page will open and you can see now which part of the unit has caused the alarm. In the manual for the DanX unit you will find a guide how to solve the fault.

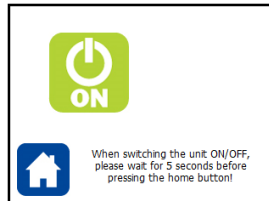
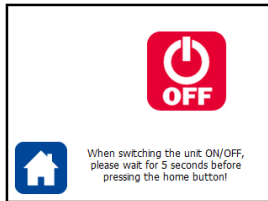
3.6 Unit start/stop page



Touch the icon with the Unit Status and you will be asked for a password which is **2222**.




Now the page with the ON/OFF button will open.



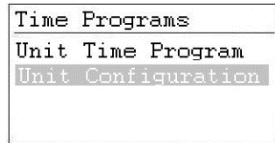
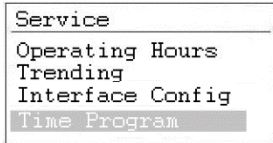
Now touch the OFF button. The OFF icon will now disappear and the ON icon will pop up. Wait for a few seconds before touching the Home button. Now the unit will be stopped.

When the unit should start up again, you now have to touch the ON button.

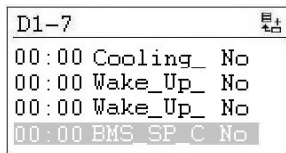
4.0 Activating the touch panel set points in the MVC80

Press the Tool button  of the MVC80 controller without entering a password and go to:

- Time Program and from there to Unit Configuration:



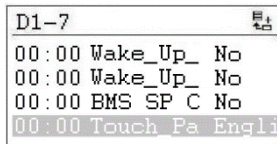
- Open the program D1-7 you will find there the point "BMS_SP_Control".



Now set the point "BMS_SP_Control" to ON and the MVC 80 will now run with the set points from the touch panel.

5.0 Language change

Normally the touch panel works with the same language as the MVC80 controller. If you want to change the language of the touch panel you have to open "Time Program" / "Unit_Configuration" / "D1-7" and find the point "Touch_Panel". Here you can chose the language of the touch panel.





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