

Preparations for LON or ModBus communication CTS6000



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MARKEDSFØRENDE ERHVERVS- OG BOLIGVENTILATION MED VARMEGENVINDING

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Installing the LON-/ModBus card

First of all **Power off** the CTS6000 Controller and mount the NilLON card as shown in the picture.



Make sure everything is in place, then **Power on** the controller.

Connecting to PC

Connect a PC to the network interface of the CTS6000 Controller and open the internet browser. In the address line of the internet browser write the IP-address of the unit (default address is 10.1.10.240) and press enter.

Then you should see the following screen.

Outstanding indoor climatet	- ?
Welcome to CTS6000 control page	
The system is running under 1.0092 FW version To get started click here: <u>CTS6000 control program version 1.47</u> Java GUI is built using Java Platform 1.8. JRE v.1.8 or higher is required	
First time connected dont save the file just open it.	
It dont work	
Q. I got a message saying that the jar file is corrupted. A. This is because the jar file is destroyed. Dont save the jar file first time connected.	
Follow these steps to get it to work. 1. Open internet explore 2. Click on tools 3. Click internet options 4. In the general tab click settings under temporary internet files 5. Click view files 6. Find the CTS6000_version_1_47.jar file and delete it.	
Q. I got a message saying the file is not recognised A. Try to update your java system. Go to <u>java.com</u>	

Read the instructions on the screen carefully, then click on the link CTS6000 control program.

Logon procedure

Then this screen shows up.

<u>چ</u>	
	Enter Username and Password
IP 10.1.10.240	Username admin Password ••••••
Quit	ок

At the IP field write the IP-address of the unit (default is 10.1.10.240).

Username : admin, (case sensitive) Password : nilanadm, (case sensitive)

Press the OK button.

You should now be logged on to the unit as administrator.



Firmware

Open the About menu and check if the following information's are correct. Software version must be at least 1.0087 and Java version at least 1.39.

🕌 About	
CTS6000 Remote control	
Nilan A/S	
Software version 1.0087a(17/01/14)	
GUI VERSION: 1.39	
You are logged on as : Administrator	
	Close

LON-card configuration

If these conditions are not meet, then you have to make a Firmware update on the unit. When the conditions are meet, open the functions menu / permissions and select LON-card configuration and make it available to user by pressing the arrow ▶.





Click OK.

Open the menu Communication / LON-card configuration and place a tick in the box beside LON control.

🛃 CTS6000 JFrame	10,000.001	
System configuration System setup Communication	Program Properties Operation	al data Functions About
PI-Diagram Historical graphs S Network configu	Iration nt log Room temperatu	Ire Regulation
Update configuration V E-mail alarm set	eknik FW 1.0087	7a udvikling
41 pa 17.9 °C 40 pa 0.0 °C 17.8 °C 17.8 °C 17.8 °C 17.8 °C 17.8 °C 17.8 °C 17.8 °C 18.1 °C 18.1 °C 18.1 °C 18.1 °C 18.6 °C	0 % 50 pa 0 % 710 79 % 45 pa	23.0 °C 21.0 °C 21.0 °C 0 T3
	10 April 2014 13:09	
Change to service mode	OFF	Change to manual set points

LON card configuration	
LON Control	
External port for LONcard	MODBUS
MODBUS speed	57600 V bps
MODBUS data format	8 bit, 1 stop, Odd parity 💌
MODBUS address	1 - ver. 1.7.4
	Close OK
(L	

Choose LON or MODBUS depending on whichever suits you. If MODBUS is chosen, set the appropriate parameters.

Click OK. When you open the window again you will see the card version. In this case ver. 1.7.4

🙆 CTS6000 JFrame		
System configuration System setup Communication	Program Properties Operation	al data Functions About
System configuration raphs System configura	tion Event log Room temperatu	Ire Regulation
Component priority n VPL with fil	ter - Teknik FW 1.0087	7a udvikling
VI T configuration	Automatic	
NETR units 17.4 °C 0 T5 14.8 °	C 50 pa	9.9 °C
System information		
Reset to factory defaults	0 % 7 27.0 °C 0 T10 30 % ©	
18.1 °C 18.1 °C 18.5 °C 18.5 °C 18.5 °C 18.5 °C	10 April 2014 13:11	22.9 °C 21.0 °C 0 T3
	.orgin.correctio	
Change to service mode	OFF	Change to manual set points

Open System configuration / system configuration.

Make the settings and the click OK.

🛃 CTS6000 JFrame	
System configuration System setup Comr	nunication Program Properties Operational data Functions About
PI-Diagram Historical graphs Event lo	g System configuration
System Configuration	VPL with filter
Heating element	None 💌
Pre cooling unit	
Heatpipe	Standard
Compressor 1 type	Controlled by VLT
T10 compressor temperature	V
Compressor 2	T11 compressor temperature 🗹
Compressor 3	T12 compressor temperature 🗹
Pressure transmitters on compressors	✓ 0 Volt 10 Volt
	LP -0,1 + Bar 9 + Bar
	HP -0,1 + Bar 39 + Bar
CO2 Compressor	
Fan type	VAV
VAV pressure transmitters on	Iniet 🗸
	0 Volt 10 Volt
	Inlet 0 + Pa 300 + Pa
System is with cooling	V
	ОК

Restart system

Finally go to the Functions menu and restart the system.



Press Yes, and you are now ready to communicate either LON or MODBUS with the CTS6000 controller.



The system now only can be operated by LON or MODBUS. LON CONTROL will be shown in the user panel.

