

User Guide Flosense 3.0 & 4.0 VNC Quick Guide

1. Introduction

This Quick Guide serves as an easy-to-use guide to help make your VNC connection to the Flosense Manifold system as simple as possible. However, beware that the Quick Guide is a supplement to the full VNC guide and for that reason cannot stand alone. So please ensure that you have read the relevant User guide thoroughly before connecting your Flosense system to your Machine UI or PC with VNC.

Disclaimer

Costs connected to any damages to the products, PC or Machine UI caused by lack of following the instruction manuals, will be at the customers own expense.

2. Connecting locally to PC or Machine UI

For connecting through a common router, go to page 8

• Connect the Flosense display to your unit with an ethernet cable.

The Flosense display needs to be Turned OFF, before connecting the display to the Machine UI or PC as seen on the picture below. Once they are connected you can turn on the Flosense display.



• Open "Network and Internet" in Windows.

- Open "Network and Sharing Center"
- Press "Ethernet" (or Local Area Connection) as shown below.

Network and Sharing Centre				-	×
🗧 🔶 👻 🛧 🚆 > Control P	anel > All Control Panel Items > Network and Shari	ing Centre	~ Ö	Search Control Panel	Q
Control Panel Home	View your basic network information	and set up connections			
Change adapter settings	View your active networks				
Change advanced sharing settings	hctcorp.hct.dk Domain network	Access type: Internet Connections: Ethernet 2			
Media streaming options					
	Netværket er ikke identificeret Public network	Access type: No network access Connections: Up Ethernes			
	Change your networking settings				
	Set up a new connection or network Set up a broadband, dial-up or VPN con	nnection, or set up a router or access point.			
	Troubleshoot problems Diagnose and repair network problems	or get troubleshooting information.			
See also					
Internet Options					
Windows Defender Firewall					

• Press "Properties" as seen below.

🏺 Ethernet Status			×
General			
Connection IPv4 Connectivity:		No network access	
IPv6 Connectivity:		No network access	
Media State:		Enabled	
Duration:		01:32:58	
Speed:		100.0 Mbps	
D <u>e</u> tails			
ACUNTY	Sent —	Received	
Bytes: 18	89,643,400	10,546,392,704	
Properties	<u>Disable</u>	Diagnose	
		Close	

• Select "TCP/IPv4 (Internet Protocol Version 4) and click "Properties" as seen below.

Ethernet Properties	×			
Networking Sharing				
Connect using:				
Intel(R) Ethernet Connection (7) I219-V				
<u>Configure</u> This connection uses the following items:]			
✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				
Install Uninstall Properties				
Description TCP/IP (Transmission Control Protocol/Internet Protocol). Standard-WAN-protokol, der kan bruges til kommunikation på tværs af flere indbyrdes forbundne netværk.				
OK Cance	1			

• Enter the network data as seen below

TCP/IPv4 (Internet Protocol Version 4) Properties					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatical	У				
Use the following IP address:					
IP address:	192.168.4.5				
Subnet mask:	255.255.0.0				
Default gateway:					
Obtain DNS server address autom	natically				
• Use the following DNS server add	resses:				
Preferred DNS server:					
<u>A</u> lternative DNS server:					
Validate settings upon exit	Ad <u>v</u> anced				
	OK Cancel				

For the subnet mask, it is highly recommended to input 255.255.0.0 as seen above.

When entering the IP-address, if you have input the recommended subnet mask, the first 6 digits of the IP address will be assigned to your PC/Unit by your network and you can select the remaining digits yourself.

The first 6 digits will almost always be 192.168 as shown above, but the remaining digits may be any number you choose between 1 and 255.

After entering the data above, click OK and your network should be ready to connect.

- Open the Global settings menu on your Flosense unit
- Open the Network settings menu as seen below (red circle)



• Set IP ALLOCATION to STATIC and Enable VNC

			NETWORK
000	IP ALLOCATION	ENABLE OPCUA	PORT
UES	STATIC O DYNAMIC		4840
456	CURRENT IP ADDRESS		
	192.168.004.123		
789	SUBNET MASK	ENABLE VNC	PORT
	255.255.000.000		5901
	GATEWAY		
	000.000.000		

- Enter the same Subnet mask as previously.
- Enter a different IP-Address than previously.
- Do not enter anything in gateway
- Exit settings on your Flosense unit

IMPORTANT!

The Flosense display need to have 12 digits in the IP-address field in order to successfully register the IP-address. This means that if you wish to use the IP-address 192.168.4.5, you will need to enter 192.168.004.005 in the Flosense software.

• Connect the Flosense display to your unit with VNC software (Here shown with TightVNC)

💑 New TightVNC	Connection	_		×
Connection				
Remote Host:	192.168.4.123::5901	- [Connect	
Enter a name or append it after t	an IP address. To specify a port number wo colons (for example, mypc::5902).	'	Options	
Reverse Connect Listening mode a their desktops. V	ions Illows people to attach your viewer to /iewer will wait for incoming connections.		Listening mod	le
TightVNC Viewer	TightVNC is cross-platform remote contro Its source code is available to everyone (GNU GPL license) or commercially (with <u>V</u> ersion info Licensing	ol soft , eithe no GP	tware. er freely L restrictions) Configure).

Make sure that you have connected your manifolds to your Flosense display before connecting the units with VNC, as the VNC connection is lost if the Flosense display is turned off or rebooted.

3. Connecting through a common router

If you are connecting your Flosense display locally to a PC or the Machine UI, ignore this part and go back to page 1.

In order to be able to connect the Flosense unit to your system using a router, the router needs to have DHCP, for it to be able to designate an IP-address to the Flosense display.

• Connect the Flosense display to your router with an ethernet cable.

The Flosense display needs to be Turned OFF, before connecting the display to the router as seen on the picture below. Once they are connected you can turn on the Flosense display.



- Open the Global settings menu on your Flosense display
- Open the Network settings menu as seen below (red circle)



• Toggle IP ALLOCATION to DYNAMIC and Enable VNC.

			NETWORK
123	IP ALLOCATION STATIC DYNAMIC CURRENT IP ADDRESS 192.168.004.123	ENABLE OPCUA	PORT 4840
789		ENABLE VNC	PORT 5901

- Exit and enter the Network settings. The IP-Address should now appear.
- Connect the Flosense display to your unit with VNC software (Here shown with TightVNC)

New TightVNC	Connection	_		×
Connection				
Remote Host:	192.168.4.123::5901	~	Connect	
Enter a name or append it after t	an IP address. To specify a port r wo colons (for example, mypc::59	number, 902).	Options	
Reverse Connect Listening mode a their desktops. V	ions llows people to attach your viewe iewer will wait for incoming conne	r to ctions.	Listening mo	de
TightVNC Viewer	TightVNC is cross-platform remote	e control se	offware.	
tight VNC	Its source code is available to eve (GNU GPL license) or commercially	eryone, eit (with no G	her freely SPL restrictions	s).
	Version info Licensi	ng	Configure.	

Make sure that you have connected your manifolds to your Flosense display before connecting the units with VNC, as the VNC connection is lost if the Flosense display is turned off or rebooted.

Change log

Date of change	Change	Version
09-10-2020	VNC Functionality implemented on Flosense	001
	systems	