How to configure FC5A-D12% CPU as Host Interface to HG2G/3G/4G Touchscreen over Ethernet



Basic system setup

The purpose of the document is to show users how to configure IDEC Ethernet CPU FC5A-D12% as a host interface to the IDEC HG2G, HG3G or HG4G operator interface touchscreen using IDEC Ethernet maintenance protocol.

- 1. In WindLDR, click on Configuration tab \rightarrow Network Settings
- 2. In this tutorial, we'll use default settings for FC5A-D12% CPU
 - a. IP Address: 192.168.1.5
 - b. Subnet mask: 255.25.255.0

Key Matrix	IP Settings							
Cartridges & Modules Device Settings Program Protection	 Obtain an IP address automatically (DHCP) Use special data registers to configure the IP address Use the following IP address: 							
Self Diagnostic	IP Address:	192.168.1.5						
Network Settings	Subnet mask:	255 . 255 . 255 . 0						
E-mail Settings Network Management	Default gateway:	0,0,0,0						

3. Download ladder program (could be blank program without any ladder logic) to FC5A-D12% CPU



- 4. Launch WindO/I-NV2 software. Start a new project.
- 5. Enter a new project filename.



6. Select HG Touchscreen type. In this example, we'll select HG3G/HG4G.



7. Select Web Server Unit (FC3A/FC4A/FC5A) protocol.

Select Host I/F Driver		×
Manufacturer: IDEC		
Protoco <u>!</u> :	Details:	
OpenNet(FC3A);MicroSmart(FC4A/FC5A) Web Server Unit(FC3A/FC4A/FC5A) MICR03;MICR03C	If using HG2G without Ethernet port, this host I/F driver can be used only as 0/I Link Slave.	
) - Connection		
• 1:1 Communication • 1:N <u>Communication • 1:N Communication • 1:N • </u>		2
< <u>P</u> revious	Next > Cancel Help]
	2	
	IDEC	

- 8. Under Project Settings → Communication Interface, enter the HG Touchscreen IP address and Subnet mask. In this tutorial, we'll use:
 - a. IP Address: 192.168.1.1
 - b. Subnet mask: 255.25.255.0

Expansion Module USB Flas	h Drive	Project Details	Contents	.	Web Server
System Communication Interface	Host I/F Drive	er 📔 Host I/F Netw	vork	Printer	Memory Card
iterface <u>C</u> onfiguration:	Interface Settings				
Interface Protocol	Protocoj:	Host Communication	-		
COM1 N/A					
Ethernet Host Communication					
USDZ(USD'A) N/A					
USB1(USB-B) Printer					
USB1(USB-B) Printer					
USB1(USB-B) Printer					
USB1(USB-B) Printer					
USB1(USB-B) Printer					
USB1(USB-B) Printer	IP Address:	192 . 168 . 1	. 1		
USB1(USB-B) Printer	IP <u>A</u> ddress:	192 . 168 . 1	. 1		
USB1(USB-B) Printer	IP <u>A</u> ddress: Subnet <u>M</u> ask:	192 . 168 . 1 255 . 255 . 255	· 1 · 0		
USB1(USB-B) Printer	IP <u>A</u> ddress: Subnet <u>M</u> ask: Default <u>G</u> ateway	192 . 168 . 1 255 . 255 . 255 0 . 0 . 0	· 1 · 0		

- 9. Click Host I/F Network tab.
- 10. Select Station 0 and click Edit.

System Communication Interface Host I/F Driver Host I/F Network Printer etwork List: Station IP Addr Port No. 0 192.168 2101 Clear	Memory Carc
etwork List: Station IP Addr Port No	
Station IP Addr Port No. Edit 0 192.168 2101 Clear	
0 192.168 2101 Clear	
Clear	



11. Enter the PLC IP address which is 192.168.1.5, and then click OK, OK. Note: Make sure Port is default to 2101.

Host I/F Networ	k Settings 🛛 🛛 🔀
Station No. IP Address:	0
<u>Port</u>	12101
ОК	Cancel Help

12. Create a test screen. Right mouse click Lamps \rightarrow Pilot Lamp

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							8	C	omm	ands	5													
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13. Double click on the pilot lamp.

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14. Proprieties of dialog box appear. Enter M8121 (1-sec clock pulse) in the Device entry box, then click OK.

Properties of	Pilot Lamp				
General View	Registration Text	Trigger Condition	Comment		
<u>T</u> rigger Type:	While ON	•	Data Type: BIN1	6(+)	
<u>D</u> evice:	M8121				

- 15. Download project to HG Touchscreen.
- 16. Internal relay M8121 is coming from the Ethernet Pentra PLC. If pilot lamp is alternating ON/OFF on the HG Touchscreen, then communication is successfully established.

