



# OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Subject: Communication Profibus with Softscreen For Windows

AN# 1070

Date: December 24, 1997

Name: Irvin Hayes Jr.

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Description: Setting up a Profibus Test Application.

## Items Needed

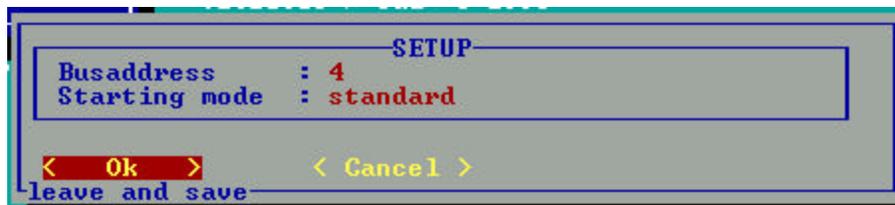
- S7 CPU with Profibus port
- SMS CIF 104-DPS-XY
- Profibus Communications Cable
- RS-232 Cable
- Xycom 3x00

Refer to your 3000-SS38 Manual for installing the SMS card in the Xycom unit.

## Compro Software:

Install the Compro software comes along with the SMS card from Synergetic Micro Systems Inc. Read the Compro manual for command line parameters for communicating with the SMS card. Start the Compro software.

1. From the Database menu select Edit:Setup. This is were you will be setting the Profibus address of the Xycom unit. Then select OK.





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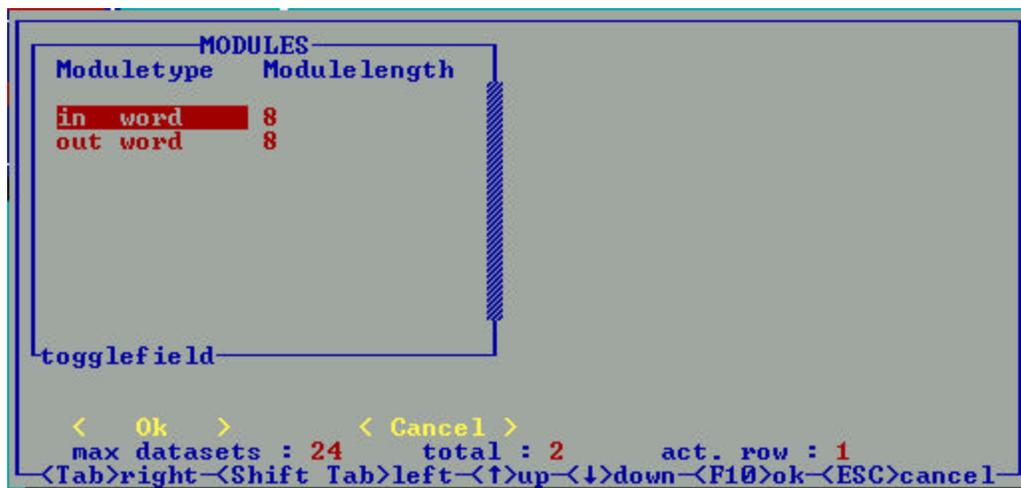
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- Next select the Modules option. Setup all of the modules that you will need in this menu. A sample is provided below. Then select OK.



- Press the ESC key. From the Online menu select Database:download. You see the data being sent. If you get a communications error please check to make sure you have an RS-232 cable plugged into the Diag, or lower 9 pin male port of the SMS card. Refer to the Compro Manuals for more assistance.
- As you exit the Compro software you will have the option to save the database. This is a good idea for future reference.

Softscreen Development System

- Make sure that you have installed the Profibus driver for Softscreen and installed it into your current application.



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6. In the Profibus configuration window set the I/O Module configuration the same as the Modules in the Compro software.

I/O Module Configuration					
	I	O	B	Start	Size
M1:	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	0	8
M2:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	0	8
M3:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M4:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M5:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M6:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M7:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M8:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M9:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M10:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M11:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M12:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M13:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M14:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M15:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M16:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M17:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M18:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M19:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M20:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M21:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M22:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M23:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0
M24:	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	0	0



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7. Create the following tags in the Profibus driver:

<u>TagName</u>	<u>Address</u>	<u>Data Size</u>	<u>Data Type</u>
CommStatus	DPCOMMSTATUS		
InputByte0	I0	8-bit	Unsigned
InputWord1	I1	16-bit	Unsigned
InputDblWord3	I3	32-bit	Unsigned
OutputByte0	Q0	8-bit	Unsigned
OutputWord1	Q1	16-bit	Unsigned
OutputDblWord3	Q3	32-bit	Unsigned

8. Create Data Displays and Static Text on a Startup screen identifying all of the tagnames.

9. Save, Generate and Download this application to your workstation.

### Step 7 Software (ver 3.1)

10. From the Compro diskette copy the Hil\_7504.GSD file from the GSD subdirectory to the *drive*\Siemens\Step7\S7data\GSD\ subdirectory (*drive* is the hard drive you installed the Step 7 software).

11. Start the Step 7 Manager. Insert your station and configure your hardware. Make sure you update your hardware catalog to include the CIF card.

12. After you have inserted your Rail and configured all of your I/O drag the CIF 30-DPS, from the Additional field devices, to your DP Master System rail.

13. Change the Profibus address, in the Profibus Nodes Properties window, to match the address for the CIF card you configured in the Compro Software. Refer to Step 1.

14. Drag over the I/O modules you need to match what was setup, in step 2 of the Compro software, to the DP Slave rail.

15. Make sure that the starting address for the I/O modules match what you have setup for the modules in the Softscreen software. Refer to Step 6.

16. After you are complete save and download your settings to the PLC.

17. From this point you can configure your block to what you need.