

SIGMA / HyperTerminal

User's Manual

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SELCOUSA.com

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1 Preface

The SELCO SIGMA modules are easily configured by clear text commands issued through the built-in RS232 interface. A standard TTY/ANSI terminal emulator is used as programming tool.

This manual describes the installation and configuration of the HyperTerminal terminal emulator. HyperTerminal is included with the Microsoft Windows operating systems.

2 Installing HyperTerminal

HyperTerminal is the terminal emulation software included with the Microsoft Windows operating system. HyperTerminal is delivered together with most versions of Windows, including Windows 95/98, Windows ME, Windows NT, Windows 2000 and Windows XP.

HyperTerminal might or might not be installed on your PC. It depends on the version of Windows used, as well as whether or not the choice was made to install HyperTerminal during the initial installation of Windows.

If HyperTerminal is already accessible on your system, you can move on to the next section of this manual (Configuring HyperTerminal). Else you will need to follow the installation procedure described below. The procedure is based on Windows 98, which typically do include HyperTerminal in the default installation. The procedure is very similar in other versions of Windows. However, there might be minor differences in the layout of the user interface (menus, dialogues etc.).



Left click on the *Start* button located at the lower left corner of the Windows desktop. Then select *Control Panel* from the *Settings* menu.



The *Control Panel* windows will emerge on the screen. Now double-click (left mouse button) on the *Add/Remove Programs* icon.

Add/Remo	ove Programs Properties			
Install/Uninstall Windows Setup Startup Disk				
To install a new program from a floppy disk or CD-ROM drive, click In				
3	I he following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click. Add/Remove.			
ATI ma Custom Microso	ch64 Diplay Driver er Rie alt Office 97, Professional Edition			
	Add/ <u>R</u> emove			
	OK Cancel Apply			

Double clicking on the *Add/Remove Programs* icon will bring up the *Add/Remove Programs Properties* dialog.

The HyperTerminal application is part of the Windows setup (it's on the Windows CD-ROM), thus its necessary to left click on the *Windows Setup* tab.

Windows	s Setup
2	Please wait while Setup searches for installed components

Before showing the installed components, Windows needs a couple of seconds to scan the PC. The above message is shown while this takes place.

Add/Remove Programs Properties		? ×		
Install/Uninstall Windows Setup Startup Disk		1		
To add or remove a component, select or clear the check box. If the check box is shaded, only part of the component will be installed. To see what's included in a component, click Details.				
Components:				
Accessibility	0.6 MB			
Accessories	11.6 MB			
🗹 🧇 Communications	6.7 MB			
🗆 🔊 Desktop Then	0.0 MB			
🗹 😂 Internet Tools	4.6 MB	-		
Space used by installed components: Space required: Space available on disk: Description	33.5 MB 0.0 MB 1352.7 MB			
Includes accessories to help you connect to other computers and online services.				
4 of 8 components selected	<u>D</u> etails			
	Have Disk.			
OK Cance		aly.		

Now left click on *Communications* components. Then left click on the *Details* button.

Communications	×			
To add a component, select the check box, or click to clear it if you don't want the component. A shaded box means that only part of the component, will be installed. To see what's included in a component, click Details.				
Components:				
🗹 😰 Dial-Up Networking	1.2 MB 🔺			
🗆 😰 Dial-Up Server	0.0 MB			
🗆 🚉 Direct Cable Connection	0.0 MB			
🗹 🥸 HyperTerminal	0.8 MB			
Microsoft Chat 2.1	0.0 MB 💌			
Space used by installed components:	33.5 MB			
Space equired:	0.0 MB			
Space a vailable on disk:	1345.9 MB			
Description Provides a connection to other computers a via a modum.	and online services			
↓	<u>D</u> etai's			
OK	Cancel			

Left click on the check box just left of the *HyperTerminal* application. Afterwards left click on the *OK* button.

Add/Remove Programs Properties	<u>?</u> ×		
Install/Uninstall Windows Setup Startup Disk	۱ <u> </u>		
To add or remove a component, select or clear the check box is shaded, only part of the compo installed. To see what's included in a componen	the check box. If ment will be It, click Details.		
Components:			
Accessibility	0.6 MB 🔺		
Accessories	11.6 MB		
Communications	6.7 MB		
🗆 🔊 Desktop Themes	0.0 MB		
Internet Tools	4.6 MB 💌		
Space used by installed components:	32.8 MB		
Space required:	0.7 MB		
pace available on disk: Description	1300.1 MB		
Includes accessories to help you connect to other computers and online services.			
4 of 8 components selected	Details		
	Have Disk		
OK Canc	el <u>A</u> pply		

Left click on the *OK* button to begin the installation of HyperTerminal.

Copying Files
Source:
Windows 98 CD-ROM
Destination:
Scanning
0%

Windows might now ask for the Windows CD-ROM. After inserting the CD-ROM (if required), Windows will install the files associated with the HyperTerminal application.

This concludes the installation of the HyperTerminal application.

3 Configuring HyperTerminal

The example shown below is based on the HyperTerminal application delivered with Windows XP Professional. Other versions of HyperTerminal/Windows may vary a bit in appearance; however the configuration sequence should be more or less the same.



First, start up the PC and wait until the Desktop to appear.



Left click on the *Start* button at the lower left corner to activate the *Windows Start Menu*. Then move the mouse pointer to *Programs*, *Accessories*, *Communications*. To start the application, left click on *HyperTerminal*.



Left click on the *Don't ask me this question again* check box.

Left click on the *Yes* button to continue.

Connection Description	?×			
New Connection				
Enter a name and choose an icon for the connection:				
Name:				
Direct COM1				
lcon:				
🍓 🤹 🥸 🐻	8			
	>			
OK Car	ncel			

Left click in the *Name* box and enter a name for the new connection (e.g. *Direct COM1*). Then select an icon (move the slider and left/right and click on the desired icon).

Left click on the *OK* button to continue.

Connect To
Elirect COM1
Enter details for the phone number that you want to dial:
Country/region: Denmark (45)
Area code:
Phone number:
Connect using: COM1
OK Cancel

At the *Connect Using* combo box, left click to select the COM-port. Select the COM-port you wish to use (e.g. *COM1* or *COM2*).

It's normally not possible to use COM1 and COM3 (or COM2 and COM4) simultaneously, e.g. you cannot use COM3 while you are using a mouse or a modem on COM1 (vise versa). The reason is that the two ports share the same interrupt request. COM1 and COM2 (and COM3 and COM4) can however be used simultaneously, as these two COM-ports works on different interrupts.

Left click on the *OK* button to continue.

COM1 Properties	? 🔀
Port Settings	
Bits per second:	9600
<u>D</u> ata bits:	8
<u>P</u> arity:	None
<u>S</u> top bits:	1
Elow control:	None
	<u>R</u> estore Defaults
0	Cancel Apply

Select 9600 from the *Bits per second* combo box.

Select 8 from the *Data bits* combo box.

Select *None* from the *Parity* combo box.

Select 1 from the Stop bits combo box.

Select *None* from the *Flow control* combo box.

Left click on the *OK* button to continue.



The *HyperTerminal* application is now ready for use. Please note that the Sigma module will acknowledge active connection with a welcome message (showing the revision info of its hardware and software as a date) and a prompt. Also check that the word *Connected* appears at the low left hand corner of the window. If not, left click on the call icon (third icon on the toolbar).

You might want to save a short-cut to the Desktop, so that you can easily start the preconfigured HyperTerminal next time you need it.

Left click on the *File* menu.

Choose Save As...

Save As					? 🛛
Save jn:	🞯 Desktop		*	G 🖻 📂 🖽	•
My Recent Documents	My Documents My Computer My Network Pla Shortcut to he	aces <_files			
Desktop					
My Documents					
My Computer					
	File <u>n</u> ame:	Direct COM1.ht		~	<u>S</u> ave
My Network	Save as <u>t</u> ype:	Session files (*.ht)		~	Cancel

This is the Save As... dialogue.

Left click on the *Desktop* icon (on the left side of the dialogue)

Left click on the *Save* button.

You should now find a *Direct COM1.ht* short-cut on your Windows desktop. Double click (using the left mouse button) on this icon next time you need to use HyperTerminal to configure a Sigma module.

4 Starting a pre-configured HyperTerminal

A previously saved HyperTerminal configuration saves you the hassle of going through the configuration procedure every time you need to access the RS232 based configuration of a Sigma module. The procedure for setting up the configuration short-cut is explained earlier in this manual.

To start the pre-configured HyperTerminal, first start up the PC and wait until the Desktop is ready for your command.



Now double click on the *Direct COM1.ht* icon located on the Desktop.

This causes the *HyperTerminal* application to execute in a pre-configured state.



HyperTerminal is started and ready for use. The Sigma module will (provided that it is connected) acknowledge active connection with a welcome message and a prompt.

5 Configuring the Sigma module

The Sigma modules are configured by clear text commands using a terminal emulator. Each configuration parameter has its own text command, which means that it is only necessary to issue the commands for the parameters that needs to be changed.



Start the pre-configured HyperTerminal application as explained earlier in this manual (double click on the *Direct COM1.ht* short-cut located on the desktop).



The HyperTerminal application will start and the Sigma module (in this case an S6000 IO/P module) will acknowledge the connection with a short welcome message and a ">" prompt. The prompt indicates that the module is ready to receive a command.

🥙 Direct COM1 - HyperTerminal 📃 🗖 🔀	<		
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>I</u> ransfer <u>H</u> elp			
D 🖙 🍘 🍒 🗈 🎦 😭			
A			
SELCO S6000 IO/P Module HW 030812, FW 031013 >READ CONFIG			
	3		
Connected 0:09:32 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo			

The first command to try out could be READ CONFIG (read configuration).

The *READ CONFIG* command makes the module respond with a list of commands. The listed commands represent the current settings.

Type *READ CONFIG* at the prompt and hit the ENTER key.

Spirect COM1 - HyperTerminal	
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>I</u> ransfer <u>H</u> elp	
WRITE ANAOUT OUT3 CURMIN 4.000 WRITE ANAOUT OUT3 CURMAX 20.000 WRITE SYS NOMVOLT 400 WRITE SYS CTPRIMCUR 100 WRITE SYS RATEDFREQ 50.0 WRITE SYS NEUTRAL NO WRITE SYS LOADCALC CUR WRITE SYS VOLTOKWND 10 WRITE SYS SETUPDEFAULT NO WRITE RS485 ADDRESS 1 WRITE RS485 BAUDRATE 9600 WRITE RS485 DATABITS 8 WRITE RS485 STOPBITS 1 >_	× •
Connected 0:05:13 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo	

The list of configuration commands exceeds the number of lines in the HyperTerminal window (we will deal with this problem later). Note however that the current configuration of the module is shown as a list of commands. These commands are actually shown in the same way as they should be typed. In other words, the module responds as it would like to be commanded.

Note that it is necessary to hit ENTER key to make the ">" prompt appear after a READ CONFIG command.

The last command (WRITE RS485 STOPBITS 1) indicates that the number of stop bits on the RS485 port is currently set to 1. Lets for the sake of example, change the number of stop bits to 2.

We will first have to switch the module from READ ONLY to READ/WRITE MODE. This is done using the ENABLE command.

Sirect COM1 - HyperTerminal	
<u> E</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>I</u> ransfer <u>H</u> elp	
WRITE ANAOUT OUT3 CURMAX 20.000 WRITE SYS NOMVOLT 400.0 WRITE SYS PRIMVOLT 400 WRITE SYS GENMAXCUR 60.6 WRITE SYS CTPRIMCUR 100.0 WRITE SYS RATEDFREQ 50.0 WRITE SYS NEUTRAL NO WRITE SYS LOADCALC CUR WRITE SYS VOLTOKWND 10 WRITE SYS SETUPDEFAULT NO WRITE RS485 ADDRESS 1 WRITE RS485 BAUDRATE 9600 WRITE RS485 DATABITS 8 WRITE RS485 STOPBITS 1	
>enable Password =	
	>
Connected 0:01:53 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print e	scho 🦯

The module will now ask for the password. The default password is 0000 (four zeros). Please note that the RS232 console password works independently from the password of the user interface.

🌯 Direct COM1 - Hyp	erTerminal						(_ 🗆 🛛
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u>	ransfer <u>H</u> elp							
🗅 🚔 🌚 🕉 🗈	ĕ							
WRITE SYS GE WRITE SYS CT WRITE SYS NE WRITE SYS NE WRITE SYS LO WRITE SYS VO WRITE SYS SE WRITE RS485 WRITE RS485 WRITE RS485 WRITE RS485	INMAXCUR IPRIMCUR ITEDFREQ UTRAL NO DADCALC C UTOKWND TUPDEFAU ADDRESS BAUDRATE PARITY N DATABITS STOPBITS	60.6 100.0 50.0 UR 10 JLT NO 1 5 9600 IONE 3 8 5 1						
>enable Password = ∗ Write Enable E>	**** ed							
<			Lectron	Leane	L K H IKA	L Carabana	I potenti e chi e	>
Connected 0:05:12	Auto detect	9600 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	

Once the password is entered, the module will acknowledge the entry into READ/WRITE mode with an "E" in front of the prompt. The module can be switched back to READ ONLY mode using the disable command.

🏶 Direct COM1 - HyperTerminal	
<u>Eile E</u> dit <u>V</u> iew <u>C</u> all <u>I</u> ransfer <u>H</u> elp	
WRITE SYS CTPRIMCUR 100.0 WRITE SYS RATEDFREQ 50.0 WRITE SYS NEUTRAL NO WRITE SYS LOADCALC CUR WRITE SYS VOLTOKWND 10 WRITE SYS SETUPDEFAULT NO WRITE RS485 ADDRESS 1 WRITE RS485 BAUDRATE 9600 WRITE RS485 PARITY NONE WRITE RS485 DATABITS 8 WRITE RS485 STOPBITS 1	~
>enable Password = ***** Write Enabled	
E>write rs485 stopbits 2 E>_	
	>
Connected 0:07:19 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Pri	nt echo

Now type the command *WRITE RS485 STOPBITS 2* at the prompt and hit the ENTER key.

🌯 Direct COM1 - HyperTerminal								×
<u> E</u> ile <u>E</u> dit ⊻iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp								
D 🗃 💮 🍒 🗈 🎦 😭								
WRITE SYS CTPRIMCUR 1 WRITE SYS RATEDFRED 5 WRITE SYS NEUTRAL NO WRITE SYS LOADCALC CL WRITE SYS VOLTOKWND 1 WRITE SYS SETUPDEFAUL WRITE RS485 ADDRESS 1 WRITE RS485 BAUDRATE WRITE RS485 PARITY NO WRITE RS485 DATABITS WRITE RS485 STOPBITS	L00.0 50.0 JR L0 T NO 9600 DNE 8 1							
>enable Password = ***** Write Enabled E>write rs485 stopbit E>read config	ts 2							
<							>	
Connected 0:07:56 Auto detect	9600 8-N-1	SCRÓLL	CAPS	NUM	Capture	Print echo		

The module accepts the command without any error response. This indicates that the command is valid.

Now check the configuration with another *READ CONFIG* command. Hit ENTER after typing the command at the prompt.

Spirect COM1 - HyperTerminal	
<u>File Edit Vi</u> ew <u>C</u> all Iransfer <u>H</u> elp	
WRITE ANAOUT OUT3 CURMIN 4.000 WRITE ANAOUT OUT3 CURMAX 20.000 WRITE SYS NOMVOLT 400.0 WRITE SYS PRIMVOLT 400 WRITE SYS GENMAXCUR 60.6 WRITE SYS CTPRIMCUR 100.0 WRITE SYS RATEDFREQ 50.0 WRITE SYS NEUTRAL NO WRITE SYS LOADCALC CUR WRITE SYS VOLTOKWND 10 WRITE SYS SETUPDEFAULT NO WRITE RS485 ADDRESS 1 WRITE RS485 BAUDRATE 9600 WRITE RS485 DATABITS 8 WRITE RS485 STOPBITS 2 E>	
	<u> </u>
Connected 0:08:37 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture	Print echo

It can now be seen that the number of stop bit has been changed to 2.

The remaining parameters can be altered in exactly the same way. The changed is stored and made active within the module once the user has pressed the ENTER key (assuming that the command is spelled correctly and no error is reported).

Remember to set the number of stop bits back to 1, following a procedure similar to the one described above.

Keep in mind that the default configuration can be restored at any time by issuing the command WRITE SYS SETUPDEFAULT YES. The default configuration is then restored after the power to the module has been turned off and on.

6 Backing up the configuration

It's often practical to make a backup copy of the configuration. The backup copy can be stored for safe keeping or it can be sent to SELCO for evaluation and trouble shooting.



Start the HyperTerminal from the desktop short-cut (double click on the *Direct COM1.ht* short-cut).



Type READ CONFIG at the prompt, however at this time do <u>not</u> press ENTER.

Left click on the *Transfer* menu.

Select Capture Text...

Capture	Text	? 🗙
Folder:	C:\Documents and Settings\jseedorf1\coskt	op
<u>F</u> ile:	ltings\jseedorff\Desktop\CAPTURE.TXT	<u>B</u> rowse
	Start	Cancel

Left click on the *Browse*... button.

Select Capture	File					? 🛛
Savejn:	🞯 Desktop		~	G	1	
My Recent Documents	Hy Documents My Computer My Network Pla	ces				
My Documents						
My Computer			/			\mathbf{n}
	File <u>n</u> ame:	S6000 Config			~	<u>Save</u>
My Network	Save as <u>t</u> ype:	Text file (*.TXT)			~	Cancel

It's now necessary to choose a location and filename for the text file that is to contain the configuration backup.

Left click on the *Desktop* icon at the left side of the dialogue.

Enter S6000 Config (or whatever name you prefer) into the File name field.

Left click on the *Save* button.



Left click on the *Start* button to start the capture.

Now hit the ENTER key to execute the READ CONFIG command that was typed previously.

🌯 Direct COM1 - HyperTermin	al				
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> e	P				
다 🗃 🐔 🖧 👘 🏝					
WRITE ANAOUT OUT3 WRITE ANAOUT OUT3 WRITE SYS NOMVOLT WRITE SYS CTPRIMC WRITE SYS RATEDFR WRITE SYS NEUTRAL WRITE SYS NEUTRAL WRITE SYS VOLTOKW WRITE SYS SETUPDE WRITE RS485 ADDRE WRITE RS485 BAUDR WRITE RS485 DATAB WRITE RS485 STOPB	CURMIN 4.0 CURMAX 20 400 JR 100 EQ 50.0 NO CUR D 10 FAULT NO SS 1 ATE 9600 A NONE TS 8 TS 1	000 .000			
>_					~
<					>
Connected 0:11:37 Auto dete	t 9600 8-N-1	SCROLL	CAPS NU	M Capture	Print echo .;;

This lists the current configuration, which has now also been captured to the text file on the desktop.

To stop the capture and close the text file, do as follows.

Left click on the *Transfer* menu.

Select Capture Text

Select Stop

This ends the capture mode. Hit the ENTER key to get the ">" prompt. Then close the HyperTerminal application.



The configuration is now accessible as a readable text file. The text file contains the list of commands necessary to reestablish the configuration from scratch.

The text file can be store on a disk for safe keeping, or it can be sent by e-mail as an attachment (e.g. for support purposes).

It is also possible to retransmit the file back into the module in order to restore the configuration. This feature is highly practical if you receive a file with a set of configuration commands from SELCO.

Double click on the *S6000 Config.txt* (using the left mouse button) to check the content of the file. Double clicking on a .txt file will open the file in the Notepad text editor.

🖡 S6000 Config.TXT - Notepad	
<u> Eile E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
WRITE PROTECT SC ENABLED YES	~
WRITE PROTECT SC LEVEL 250	
WRITE PROTECT SC DELAY 100	
WRITE PROTECT OC ENABLED YES	
WRITE PROTECT OC LEVEL 100	
WRITE PROTECT OC DELAY 5.0	
WRITE PROTECT OL ENABLED YES	
WRITE PROTECT OL LEVEL 100	
WRITE PROTECT OL DELAY 5.0	
WRITE PROTECT OL MODE PHASE	
WRITE PROTECT RP ENABLED YES	
WRITE PROTECT RP LEVEL -2	
WRITE PROTECT RP DELAY 5.0	
WRITE PROTECT RP MODE PHASE	
WRITE PROTECT EL ENABLED YES	
WRITE PROTECT EL LEVEL -50	
WRITE PROTECT EL DELAY 5.0	
WRITE PROTECT EL MODE PHASE	
WRITE PROTECT VE ENABLED NO	
WRITE PROTECT VE LOWLEVEL 70	
WRITE PROTECT VE UPLEVEL 130	
WRITE PROTECT VE DELAY 2.0	
WRITE LOADTRIP NE1 ENABLED YES	
WRITE LOADTRIP NE1 LEVEL 80	
WRITE LOADTRIP NE1 DELAY 10.0	
WRITE LOADTRIP NEL MODE PHASE	
WRITE LOADIRIP NEZ ENABLED YES	
WRITE LOADTRIP NEZ LEVEL 90	
WRITE LOADTRIP NEZ DELAY IU.U	
WRITE LOADIRIP NEZ MODE PHASE	
WRITE TORELAYS CONTACT NO	
WRITE TORELATS NEITHIE CONTACT ND	
WRITE TORELAYS NEITRIP RESETDELAY 1	
WRITE TORELAYS NEZTRIP CONTACT ND	
WRITE IORELAYS NEZTRIP LATCH YES	
WRITE TORELAYS NEZTRIP RESETDELAY 1	_
WRITE ANAOUT OUT1 SRC P	
WRITE ANAQUE OUT1 STGNAL VOLT	
WRITE ANAOUT OUT1 SECMIN -10.0	
WRITE ANAOUT OUT1 SRCMAX 100.0	
WRITE ANAOUT OUT1 VOLMIN -1.000	
WRITE ANAOUT OUT1 VOLMAX 10.000	
WRITE ANAOUT OUT1 CURMIN 4.000	
WRITE ANAOUT OUT1 CURMAX 20.000	
WRITE ANAOUT OUT2 SRC Q	
WRITE ANAOUT OUT2 SIGNAL VOLT	
WRITE ANAOUT OUT2 SRCMIN -10.0	
WRITE ANAOUT OUT2 SRCMAX 100.0	
WRITE ANAOUT OUT2 VOLMIN -1.000	
WRITE ANAOUT OUT2 VOLMAX 10.000	
WRITE ANAOUT OUT2 CURMIN 4.000	*

It is necessary to scroll the contents of the notepad widow to view the full content of the file.

It might be necessary to clean the text file for excess characters and lines. The excess characters and lines (e.g. ">" prompts, linefeeds and commands) might be present at the beginning and end of the command list. The amount of excess information depends on when the capture was started and ended. The excess characters and lines can be easily deleted by editing the file, where after the file can be updated using the Save... function of the Notepad File menu.

7 Restoring the configuration

The configuration of the Sigma modules can be easily restored from a text file containing the setting. The generation of the text file (backup) is described above.



Start the HyperTerminal from the desktop short-cut (double click on the *Direct COM1.ht* short-cut).



Enable the module for READ/WRITE access using the ENABLE command (default password is 0000). Then Left click on the *Transfer* menu.

Select Send Text File...

Send Text File						? 🔀
Look jn:	🞯 Desktop		*	3	بي 🥙	
My Recent Documents	My Documents My Computer My Network Pla S6000 Config.t	aces xt				
My Documents						
My Computer						
	File <u>n</u> ame:	S6000 Config.txt			~	<u>O</u> pen
My Network	Files of <u>type</u> :	Text file (*.TXT)			*	Cancel

It's now necessary to choose the location and filename of the text file containing the configuration.

Left click on the *Desktop* icon at the left side of the dialogue.

Click on the S6000 Config.txt (or whatever is the name of the file).

Left click on the *Open* button.

Spirect COM1 - HyperTerminal		×
<u>File Edit Vi</u> ew <u>C</u> all <u>I</u> ransfer <u>H</u> elp		
E>WRITE ANAOUT OUT3 VOLMIN 0.000 E>WRITE ANAOUT OUT3 VOLMAX 10.000 E>WRITE ANAOUT OUT3 CURMIN 4.000 E>WRITE ANAOUT OUT3 CURMAX 20.000 E>WRITE SYS NOMVOLT 400.0 E>WRITE SYS GENMAXCUR 60.6 E>WRITE SYS GENMAXCUR 60.0 E>WRITE SYS RATEDFREQ 50.0 E>WRITE SYS NEUTRAL NO E>WRITE SYS NEUTRAL NO E>WRITE SYS VOLTOKWND 10 E>WRITE SYS SETUPDEFAULT NO E>WRITE RS485 ADDRESS 1 E>WRITE RS485 DATABITS 8 E>WRITE RS485 STOPBITS 1 E> E>		
	>	
Connected 0:01:40 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo		:

This causes the content of the text file (S6000 Config.txt) to be written back into the Sigma module – line by line.

8 Reducing the Send Text speed

The transfer speed of the *Send Text*...function (described in conjunction with the Configuration Restore procedure) can be reduced. Normally it is perfectly OK to run at full speed (0 ms character and line delay), however in some cases it may be practical to slow down the process. One reason could be to visually confirm the restore line by line.



Start the HyperTerminal from the desktop short-cut (double click on the *Direct COM1.ht* short-cut).

🏶 Direct COM1 - HyperTerminal							
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp							
🗅 🚅 🍘 🐍 👘 🚔							
SELCO S6000 IO/P Moo HW 030812, FW 031013 >	lule }						
		Lechou	CARS	L NIL INA	Contract	Dvint ocho	>
Connected 0:00:06 Auto detect	9600 8-N-1	SCRULL	CAPS	NOM	Capture	Princecho	

Click on the *Disconnect* icon to close the connection to the module.

🍣 Direct COM1 - HyperTerminal							
<u>File E</u> dit <u>V</u> iew <u>⊂</u> all <u>T</u> ransfer <u>H</u> elp							
다 🕰 📨 🖉 👘 🖉							
SELCO S6000 IO/P Mod	lule						
HW 030812, FW 031013	i						
<							>
Connected 0:00:06 Auto detect	9600 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	

Left click on the *File* menu.

Select Properties

SIGMA Connection Properties	?×
Connect To Settings	
SIGMA Connection Change <u>I</u> con	
Country/region: Denmark (45)	
Enter the area code without the long-distance prefix.	
Ar <u>e</u> a code:	
Phone number:	
Connect using: COM1	
Configure ✓ Use country/region code and area code □ Redial on busy	
ок с	ancel

Click on the *Settings* tab.

SIGMA Connection Properties
Connect To Settings
Function, arrow, and ctrl keys act as Image: Comparison of the second
Backspace key sends • <u>C</u> trl+H • <u>D</u> el • Ctrl+ <u>H</u> , Space, Ctrl+H •
Emulation:
Auto detect Terminal Setup
Tel <u>n</u> et terminal ID: ANSI
Backscroll buffer lines: 500
Play sound when connecting or disconnecting
Input Translation
OK Cancel

Click on the ASCII Setup...button.

ASCII Setup 🛛 🖓 🔀
ASCII Sending
Send line ends with line feeds
Echo typed characters locally
Line delay: 50 millisecond
Character delay: 2 milliseconds.
ASCII Receiving Append line feeds to incoming line ends Force incoming data to 7-bit ASCII Yrap lines that exceed terminal width

Set the Line delay to 50 millisecond. This is the delay between each command.

Set the *Character delay* to 2 milliseconds. This is the delay between the individual characters.

Click on the OK button to accept the new settings and close the ASCII Setup dialogue.

Click on the *OK* button to close the *Properties* dialogue.

🌯 Direct COM1 - Hyper	Terminal							
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HW 030812, FW	031013							
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Connected 0:00:06 Au	uto detect	9600 8-N-1	SCRULL	CAPS	NOM	Capture	Princ echo	

It is practical to update the desktop short-cut (HyperTerminal configuration) with the new settings.

Left click on the *File* menu.

Select Save.

Rerun the Configuration Restore procedure, as described above.