



GEMÜ e.^{sy}-com
Operating manual

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Status 17th April 2013



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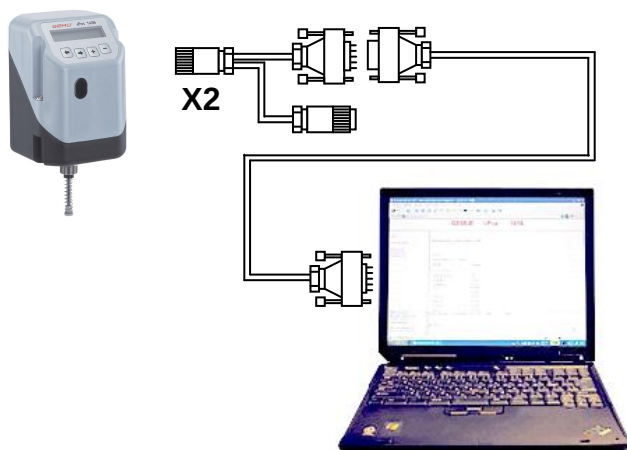
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1 Necessary accessories for the use of the e.^{sy}-com interface

For the use of the GEMÜ e.^{sy}-com interface are the following accessories necessary:

GEMÜ Type	Kind of connection	Connection with	Necessary accessories
1436 cPos	Serial cable	 PC / Laptop	1436S02Z00M000Y0 (ohne Sub-D Verlängerung) 1436S02Z05M005Y0 (5 meter Sub-D Verlängerung)

2 Electrical connection

3 Installation instruction of a serial connection with a PC



In order to make a telecommunication connection between GEMÜ 1436 cPos and a PC, a network must be installed on the PC. All further applications should be closed during the installation

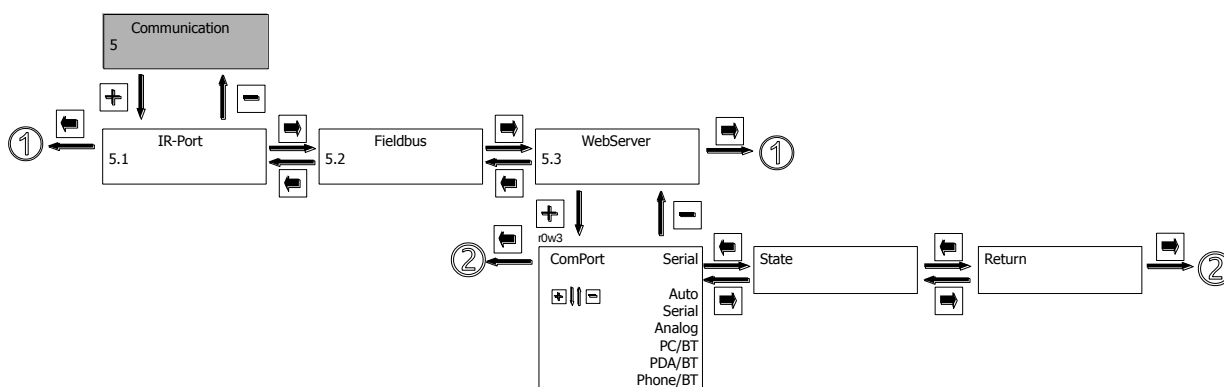
Serial connection
PC

3.1 Setting connection at GEMÜ 1436 cPos

In order to make a connection via a serial cable with a PC and the GEMÜ positioner 1436 cPos you have to do the following steps:

Software version < V 1.8.0.0

Select at ComPort [Auto] or [Auto PC]

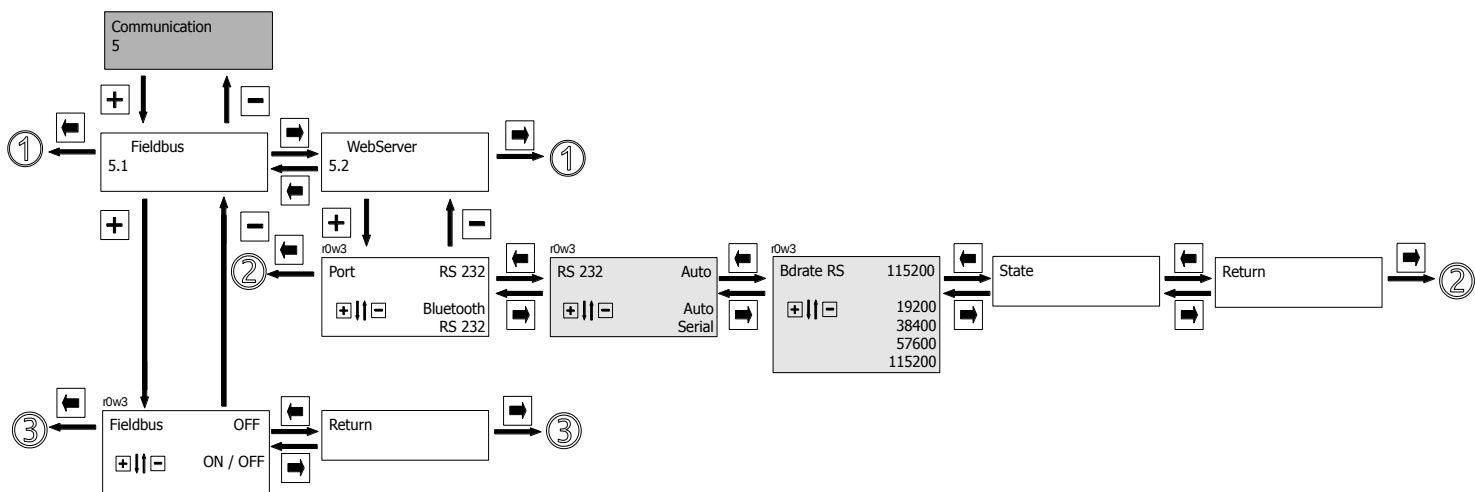


Software version ≥ V 1.8.0.0

Select at Port [RS232]

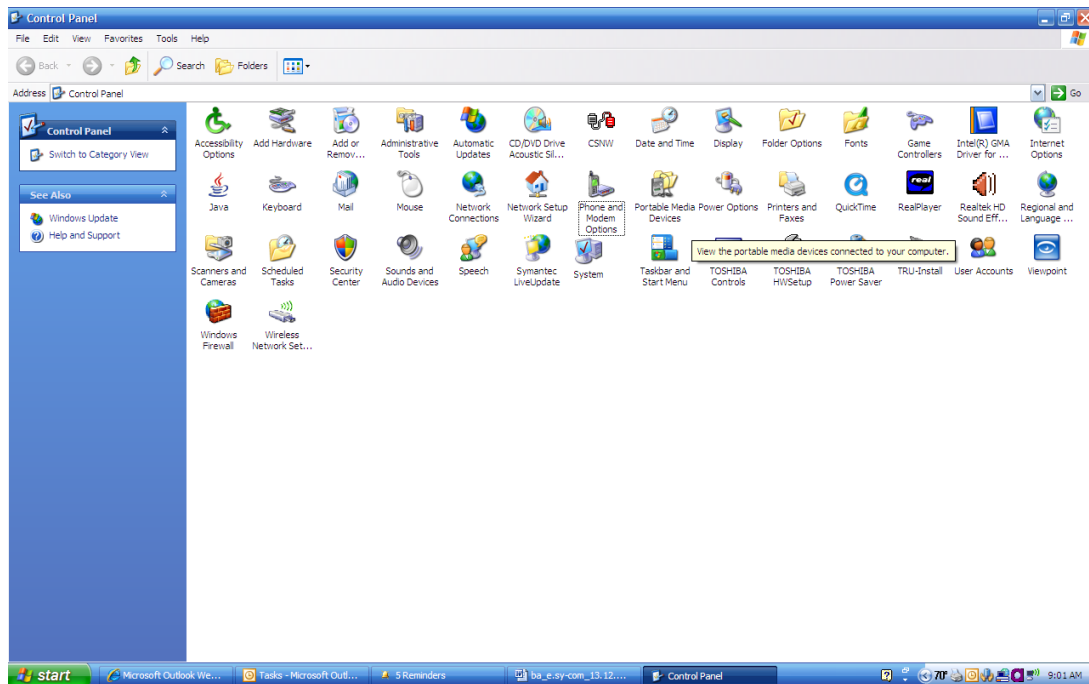
Select at RS232 [Auto]

Select at Bdrate RS [115200]

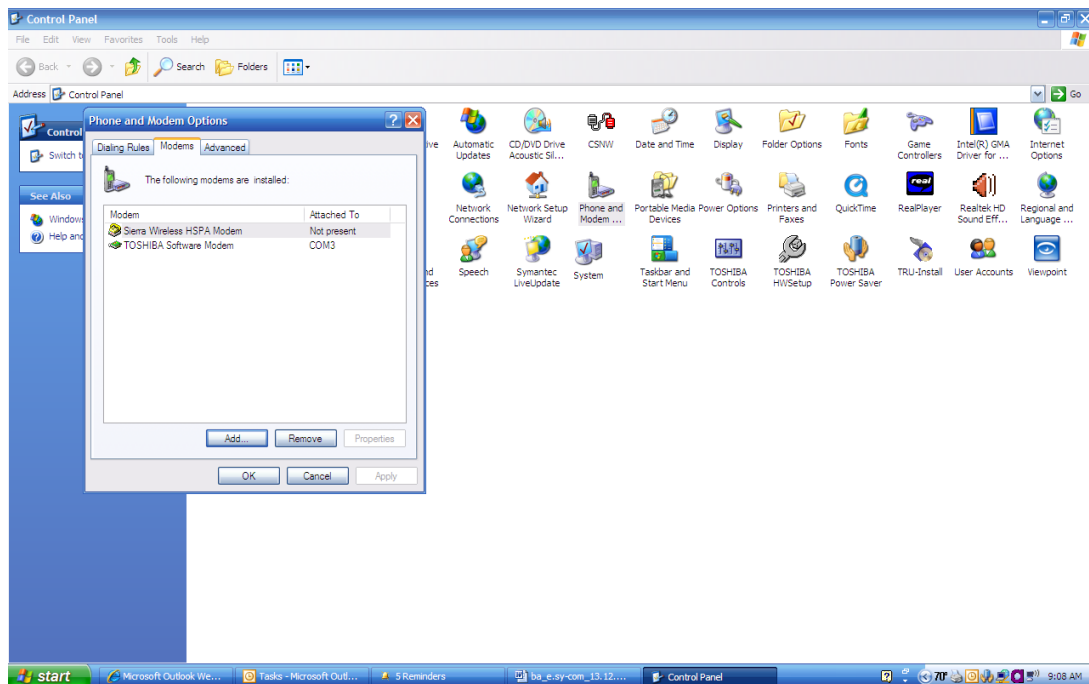


3.2 Intallation of data communication

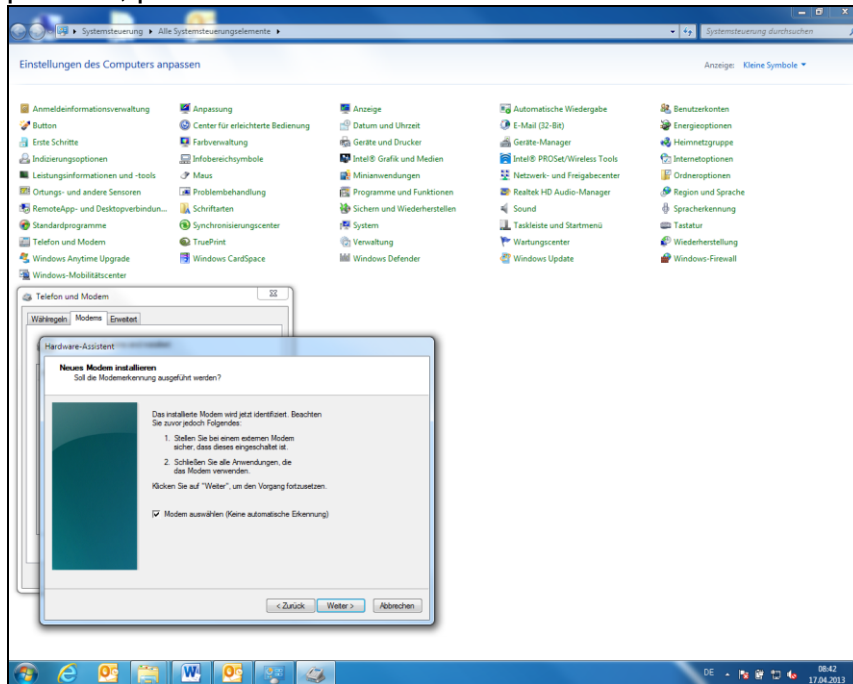
Select in the “start” menu the “control panel” option



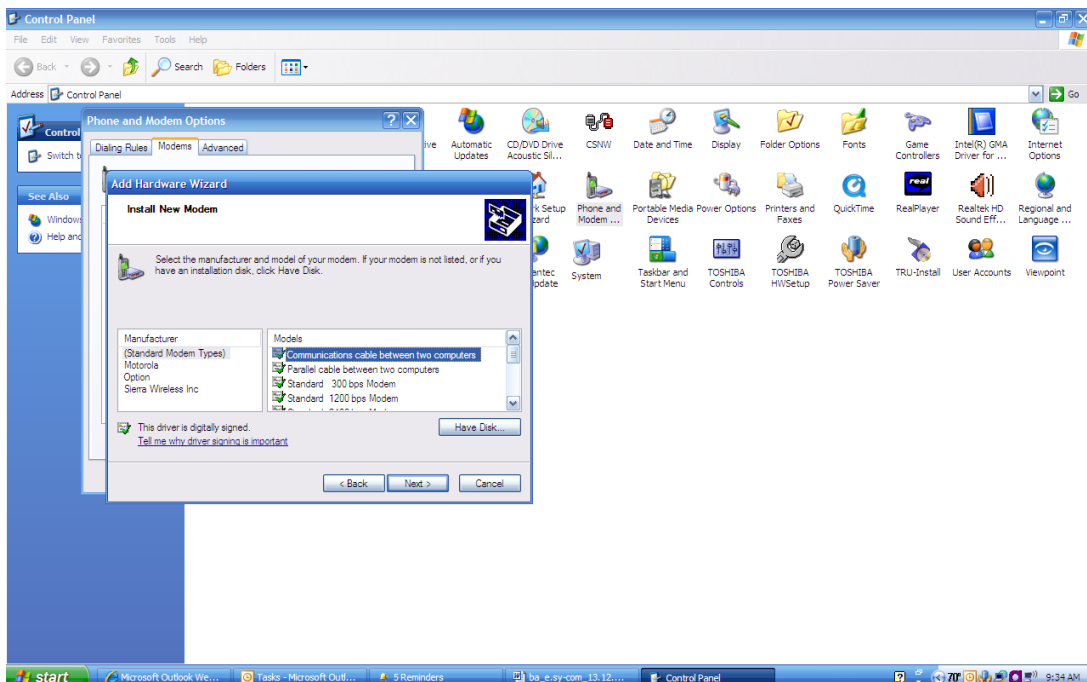
Click on the “modem” tab in Telephone and Modem Options, then select “Add...”



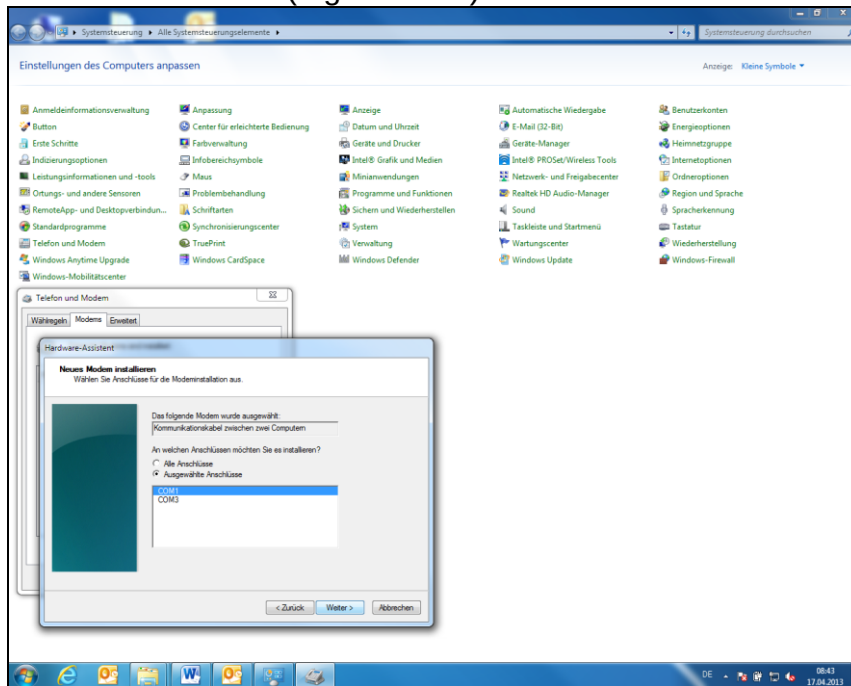
Select and activate in the window “Install New Modem”. The statement “ Don’t detect my modem, I will select from a list” should be checked. After completing this process, press the button “Next”.



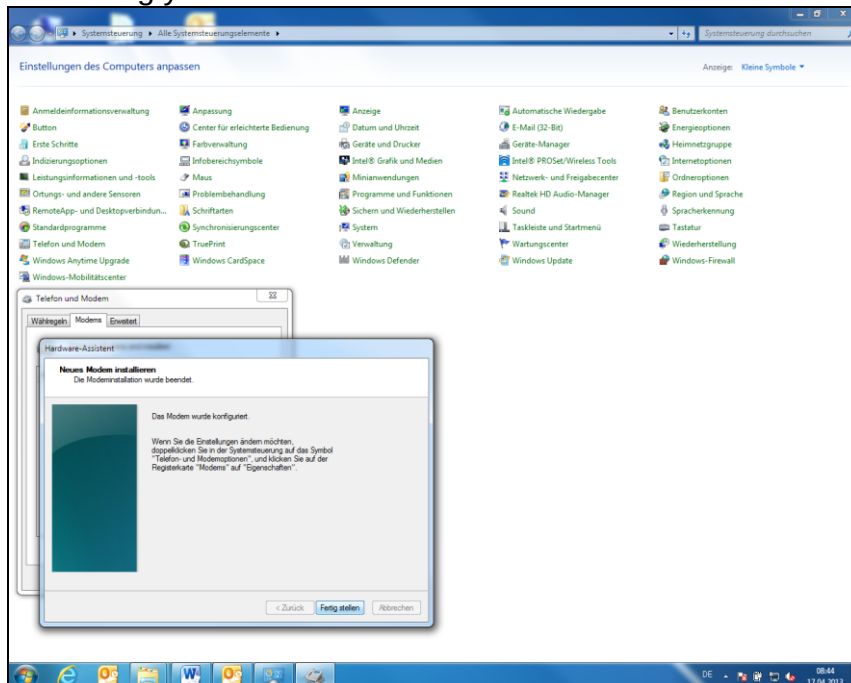
Don't change anything in the selection menu “Manufacturer” and select in the window “models” the modem “Communication cable between two computers”. After that activate the button “Next”.



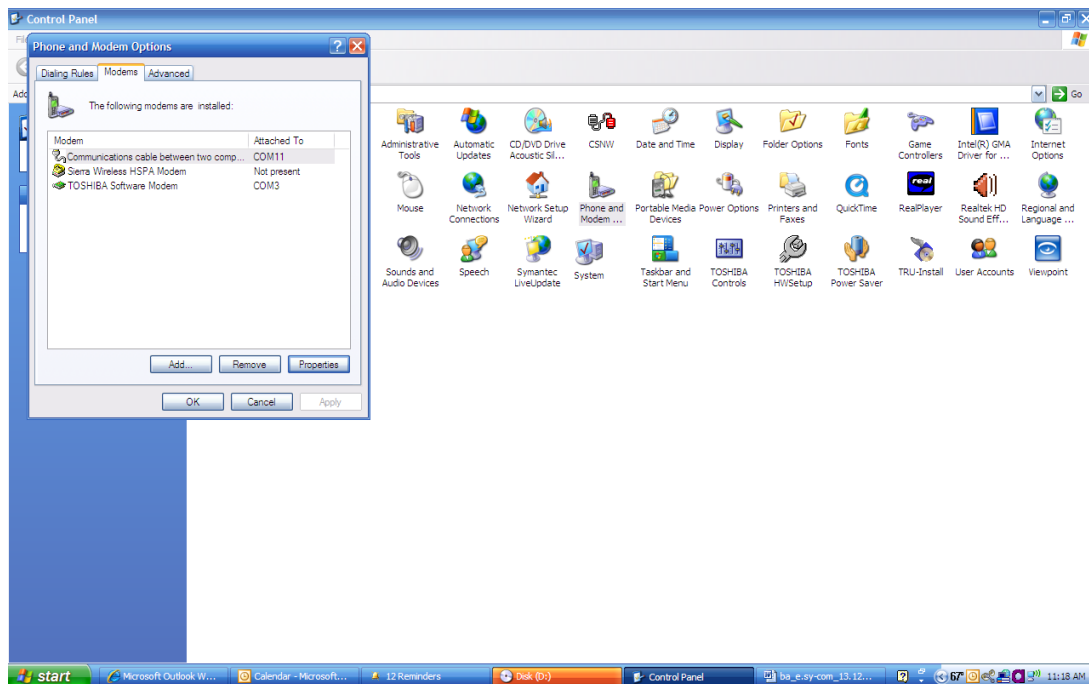
Activate in the next window the menu “Selected ports” and the connection the cPos should be attached (e.g. COM11). After that activate the button “Next”.



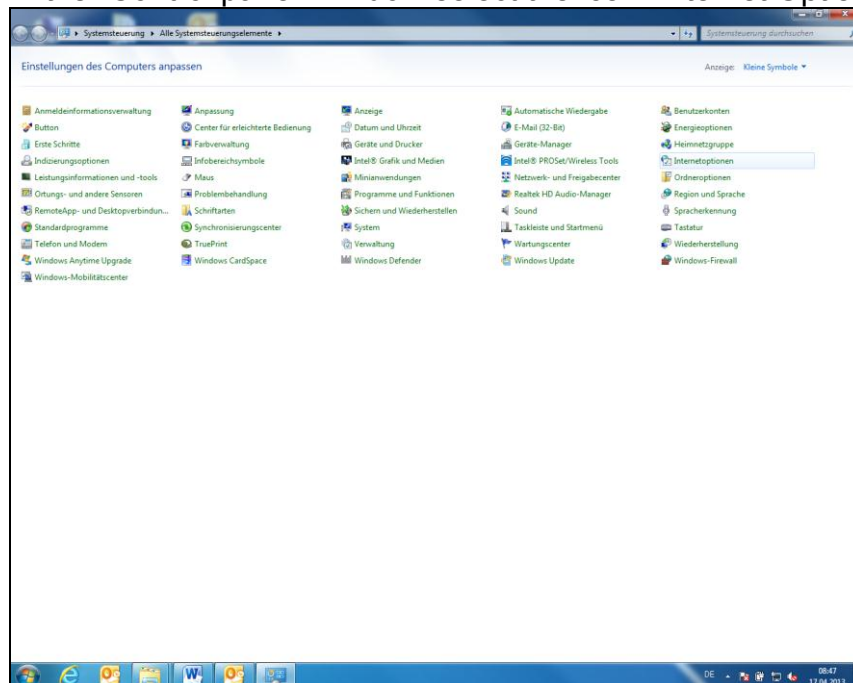
Now it indicates that all settings for the modem are done. In order to finish the setting you have to activate the button “Finish”.



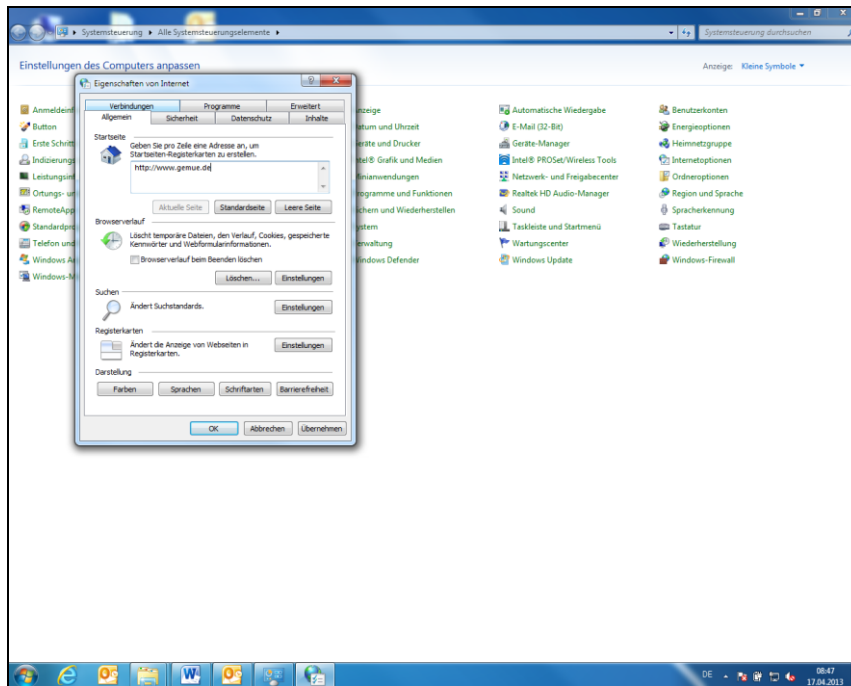
The new installed modem (e.g. COM 11) is highlighted in the window of the “Phone and Modem Options”.



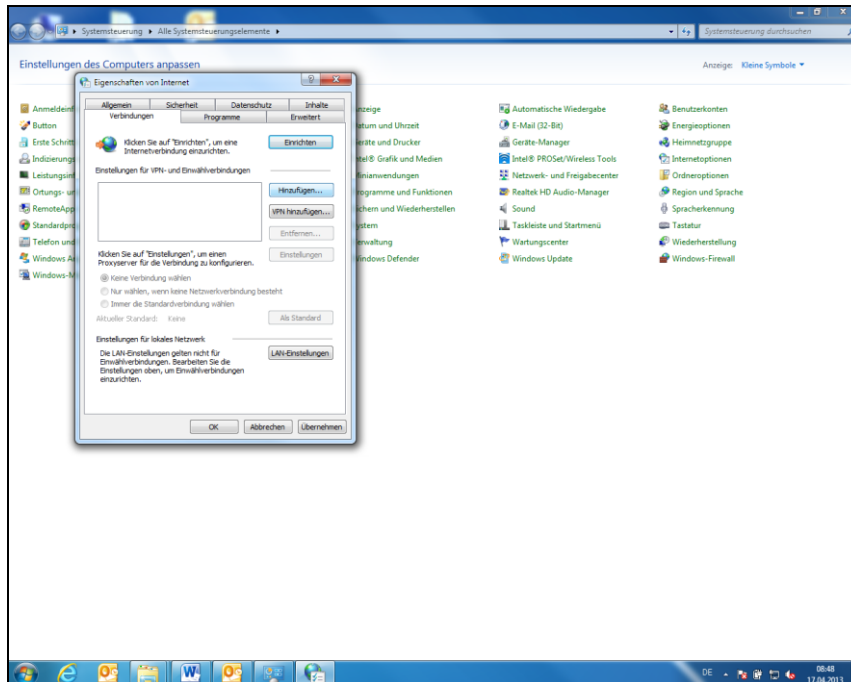
In the “Control panel” window select the icon “Internet Options”.



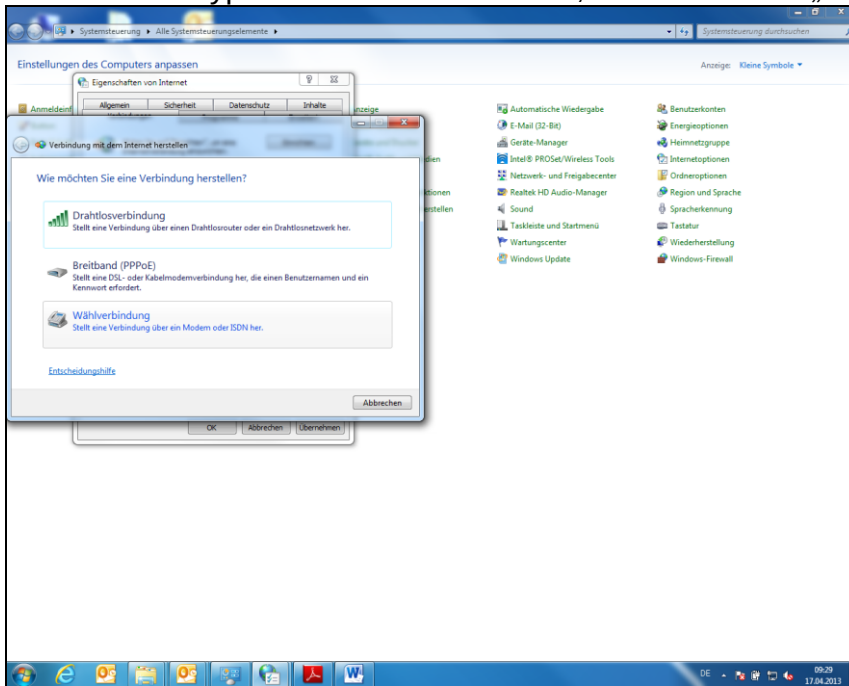
Register in the field “Home Page” an internet address (e.g. www.gemue.de) or the IP address “9.1.1.1” and select the tab “Connections”.



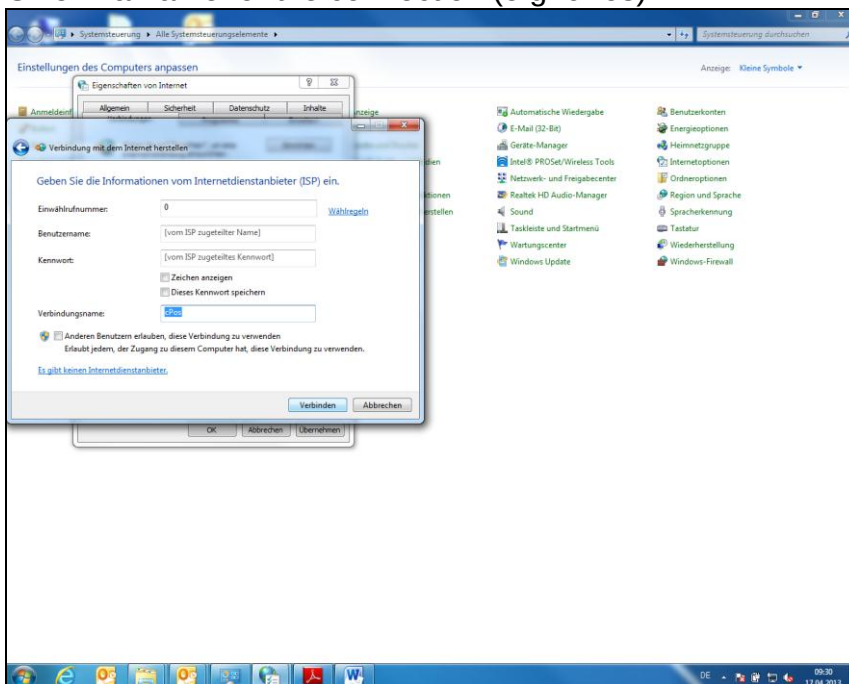
Select the tab “Connections” and click on the button “Add...”



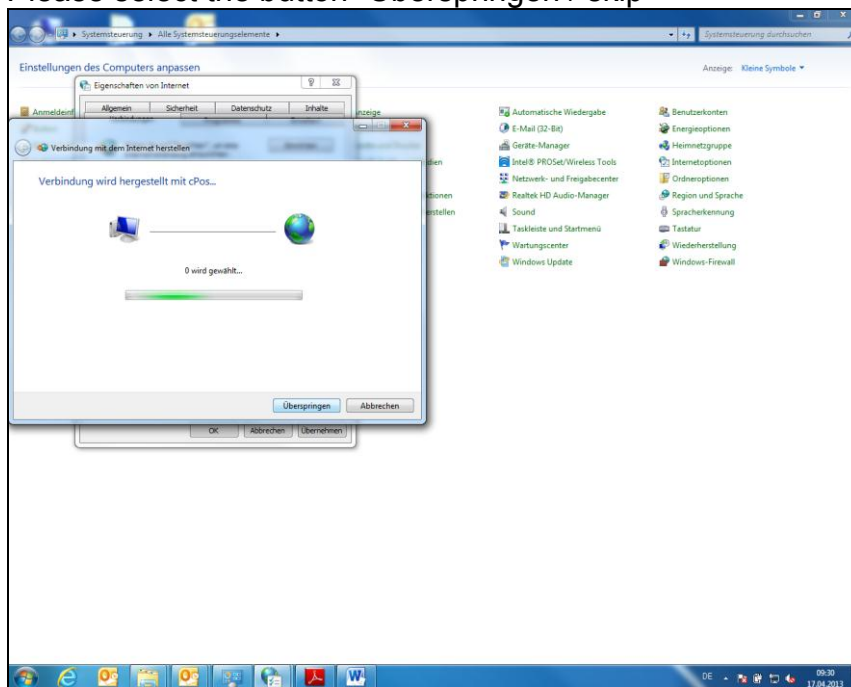
Select in the “type of connection” screen, the connection „Dial connection”.



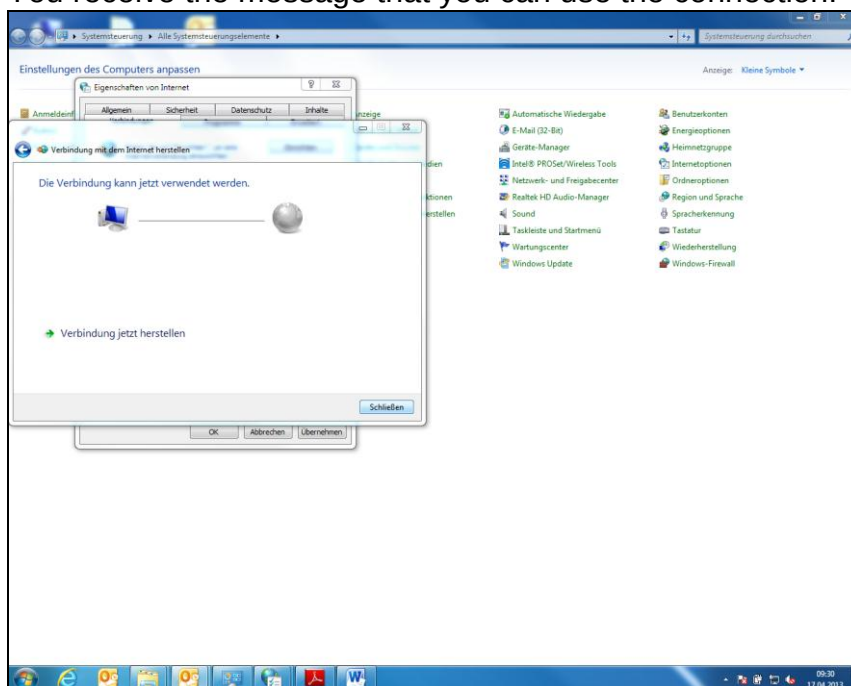
Give in a name for the connection (e.g. cPos).



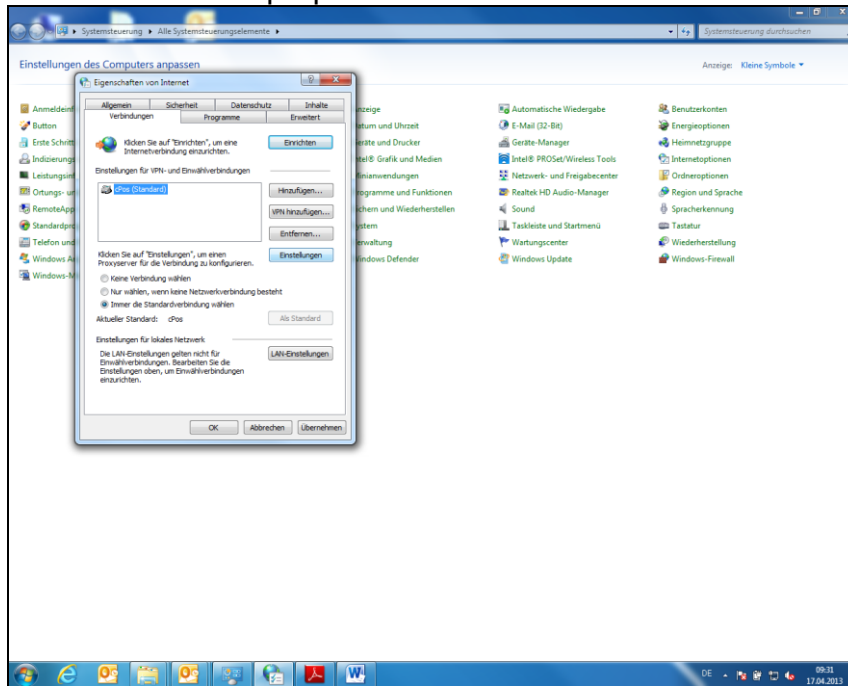
Please select the button “Überspringen / skip”



You receive the message that you can use the connection. Click the button “close”

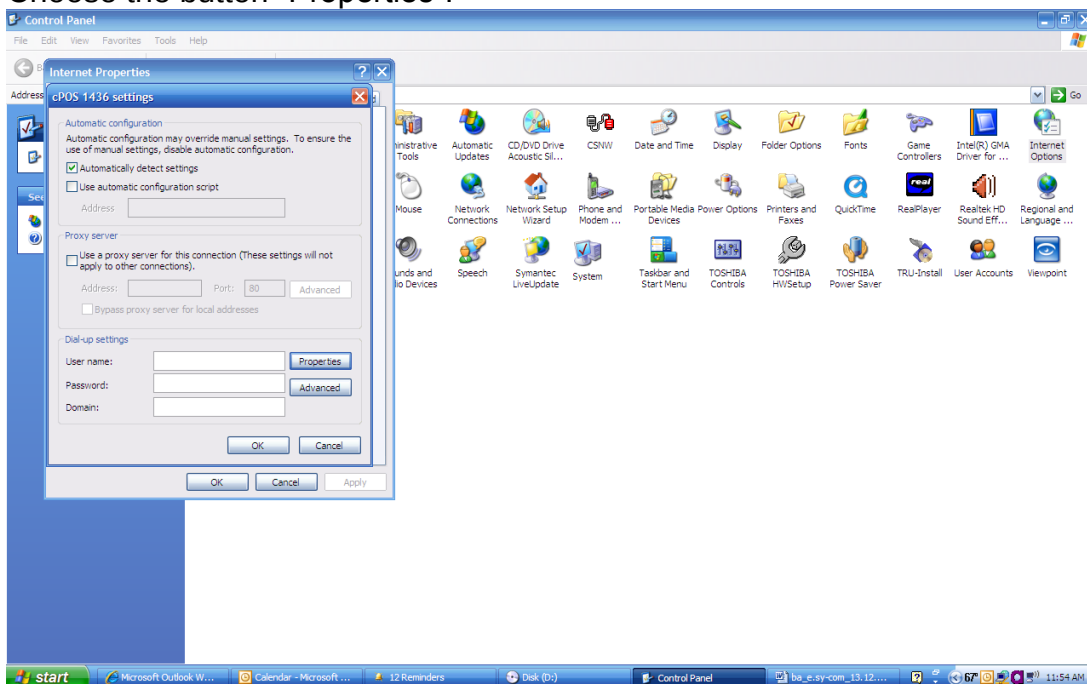


Select the button “properties” of the connection “cPos”

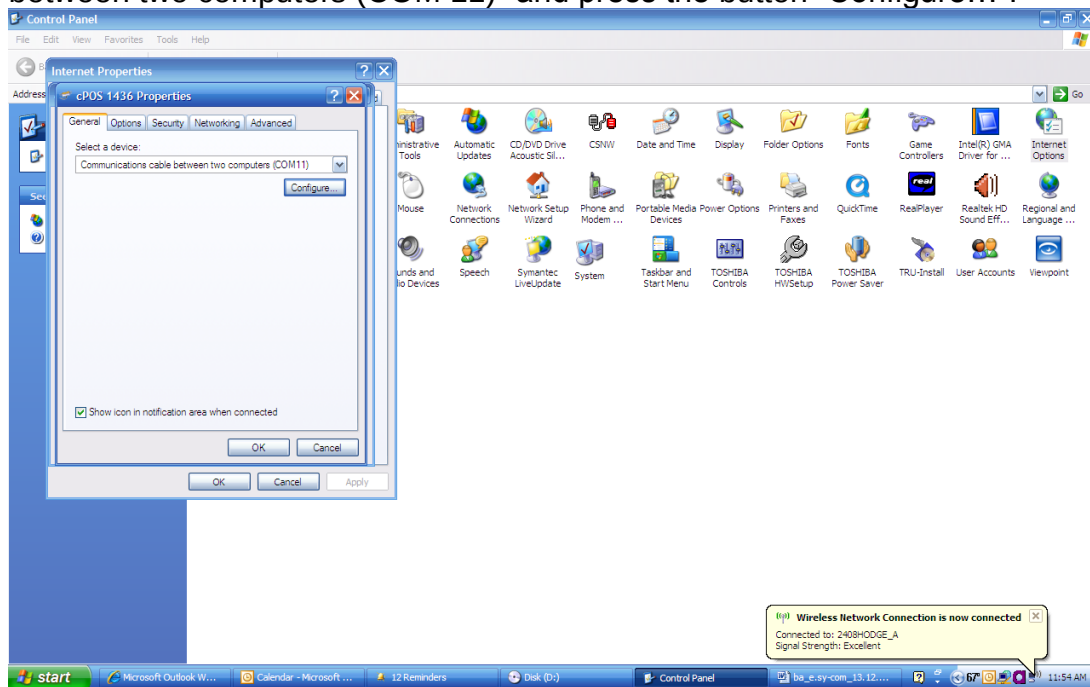


Serial connection
PC

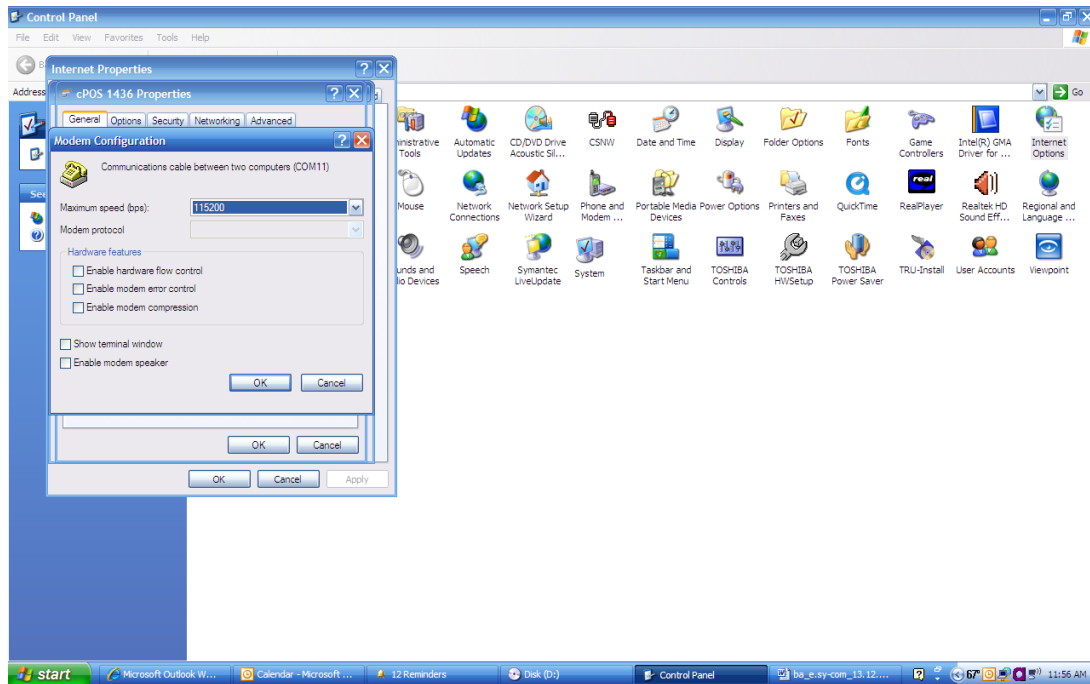
Choose the button “Properties”.



In the “General” screen, use the pull down menu to select „Communication cable between two computers (COM 11)“ and press the button “Configure...”.

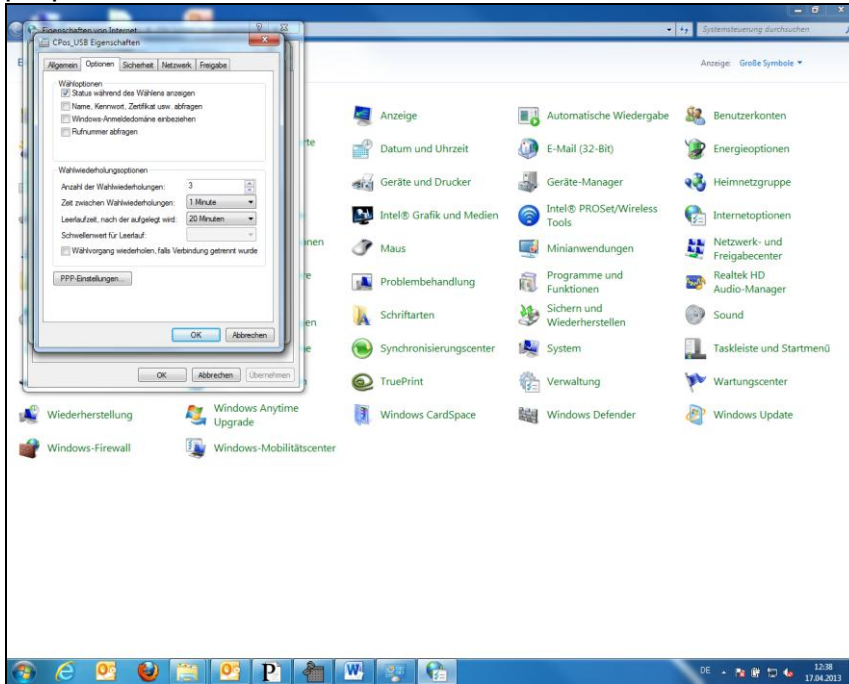


Select in the window “Modem Configuration” the max. baudrate of 115000 (Bit/s) and take on the hook at the button “Enable hardware flow control”. After that operation, click the button “OK”.

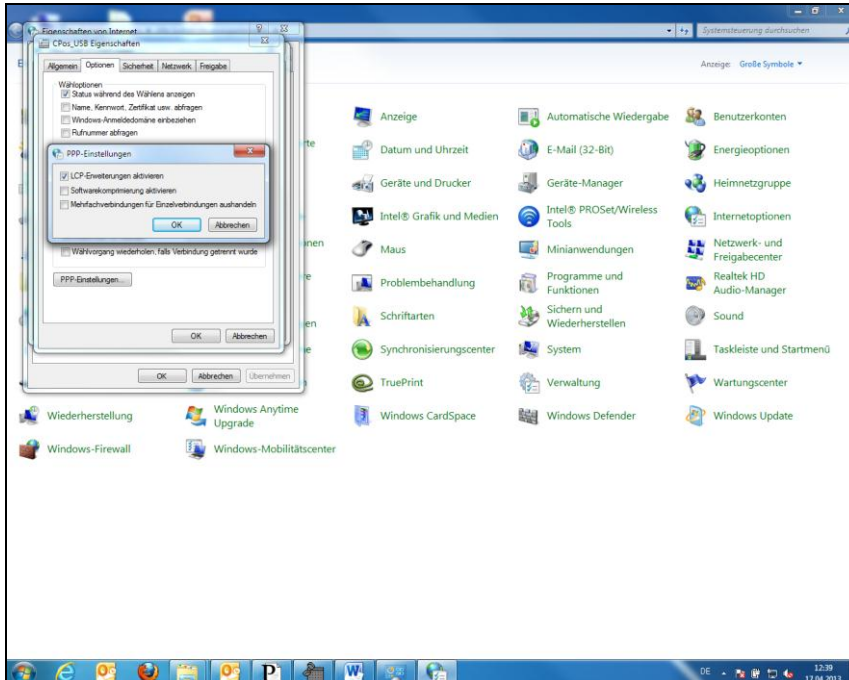


After closing that window, press the button “OK”.

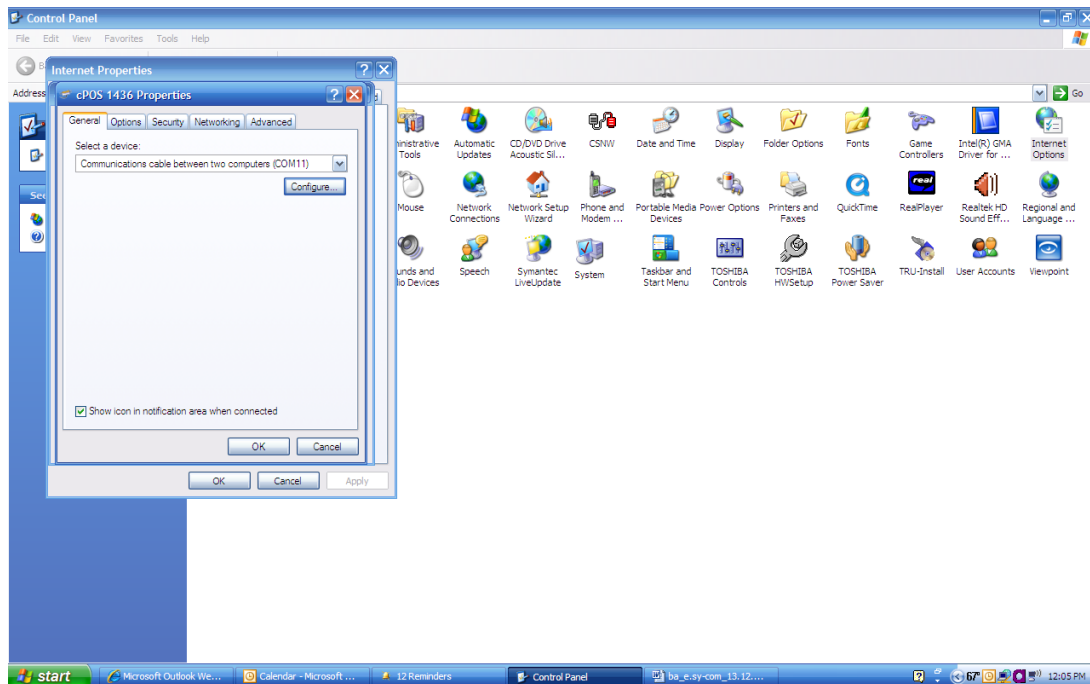
Within the 1436 cPOS window, select the “Options” tab and click the button “PPP-properties”



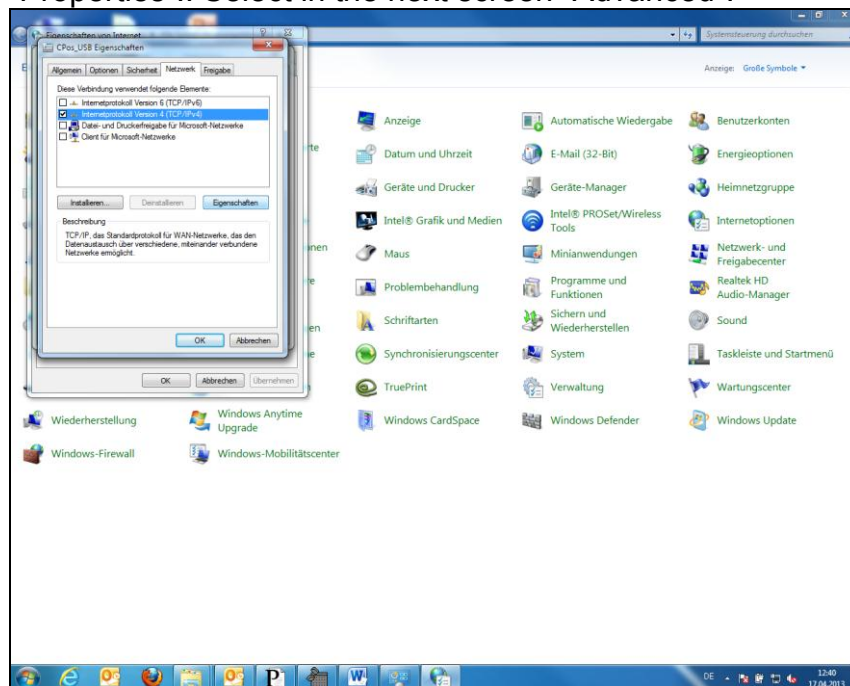
Follow the below screen shoot and close the window with the “OK” button.



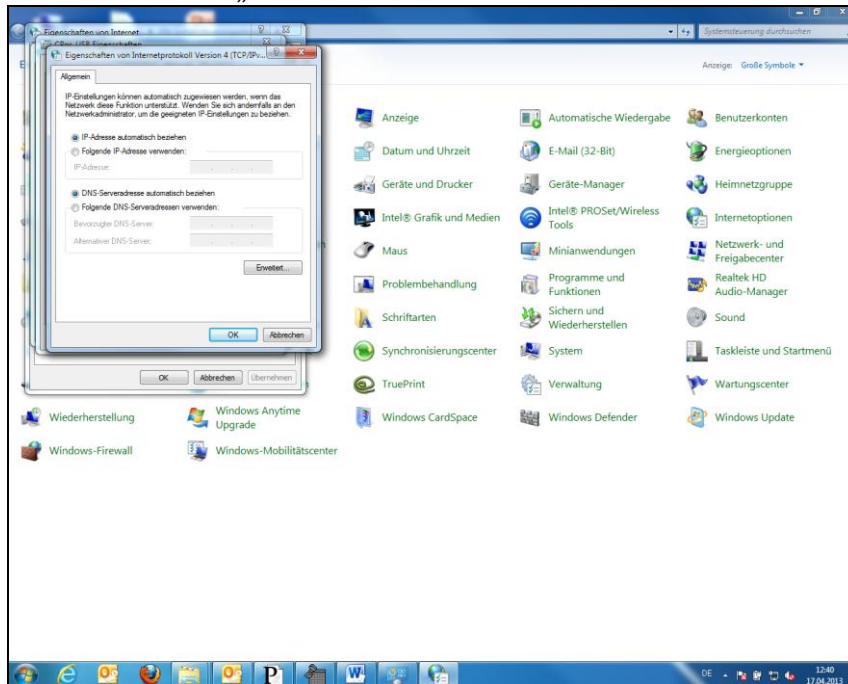
After closing that window, press the button “OK”.
Within the 1436 cPOS window, select the “Networking” tab.



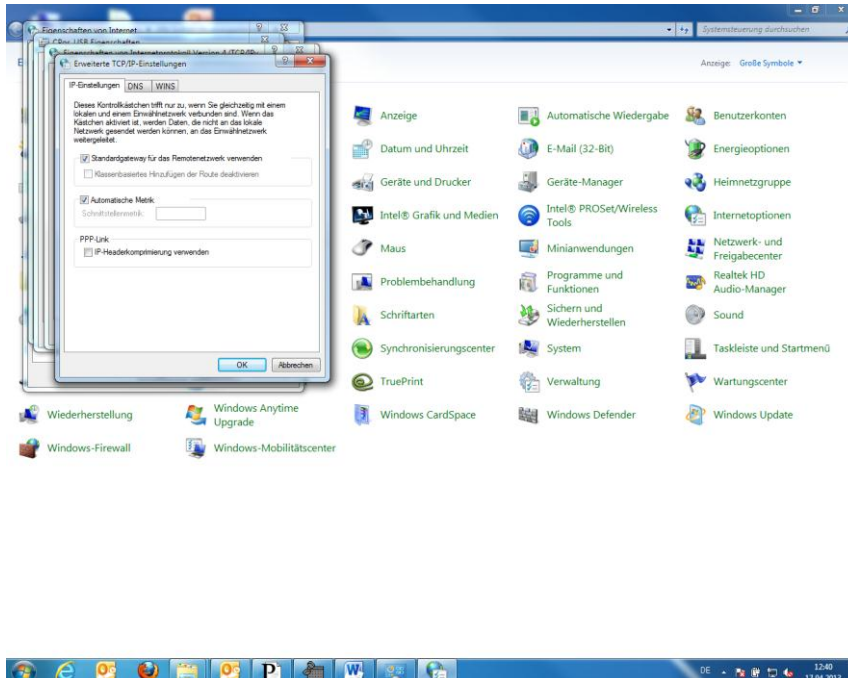
Don't mark the “Internet protocol 6(TCP\IP)”
On the screen highlight “Internet protocol 4(TCP\IP)” and press the button
“Properties”. Select in the next screen “Advanced”.



Click the button „erweitert“



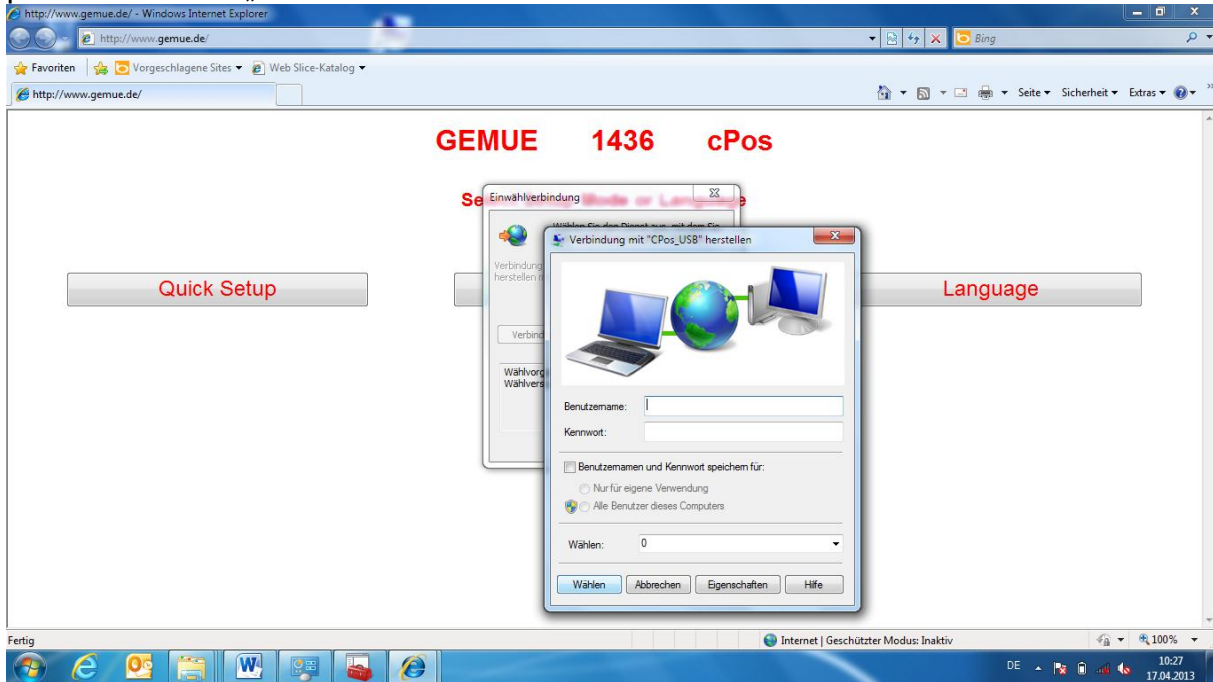
Take off the hook at the button “Use IP header compression”.
Click the button “OK”.



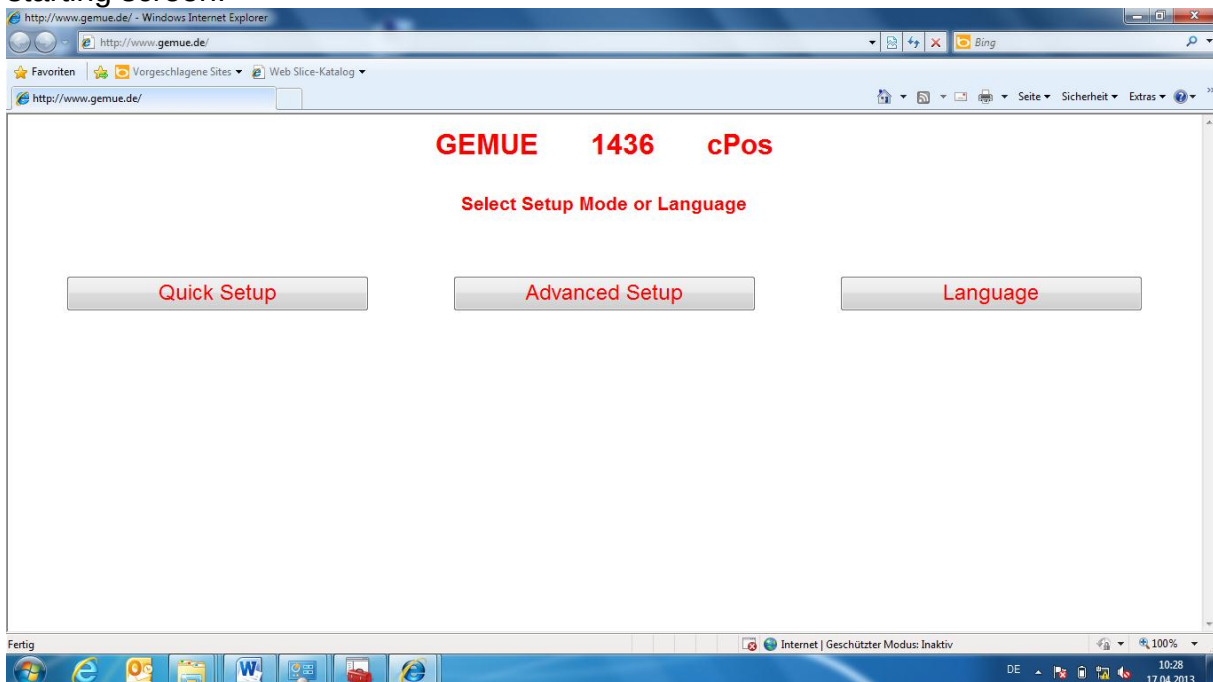
Close after that all windows by pressing the button “OK”.

3.3 Take up the connection with GEMÜ 1436 cPos

In order to make a connection with the GEMÜ 1436 cPOS, open the Internet Browser and select in the window „data communication connection“ the connection cPos and press the button „Connection“.

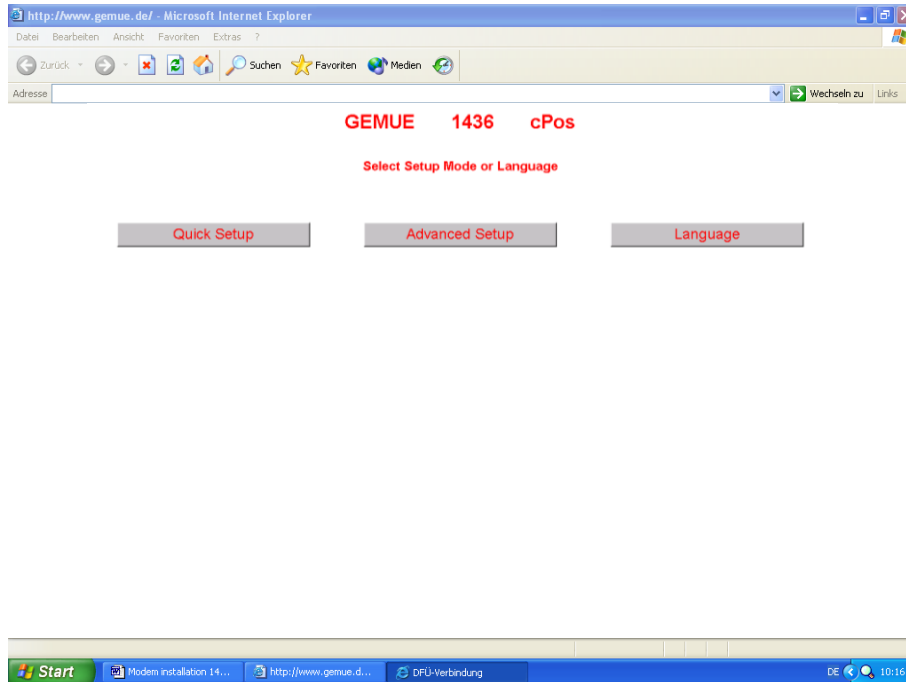


The next step the GEMÜ positioner 1436cPos announced itself with the following starting screen.



4 How to use the GEMÜ-Browser with PC

After the successful connection with GEMÜ 1436 cPos you'll get the following screen



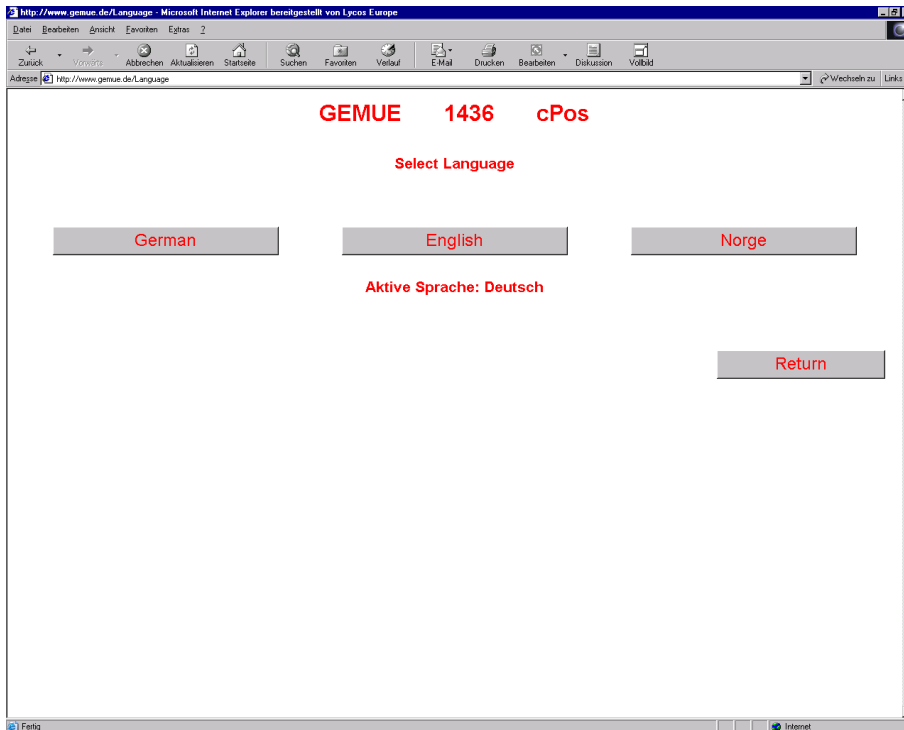
If you press the button “Language”, you get into the menu to set the national language.

If you press the button “Quick Setup”, you get into the menu to set the basics.

If you press the “Advanced Setup”, you get into the menu to set the extended functions and paramters.

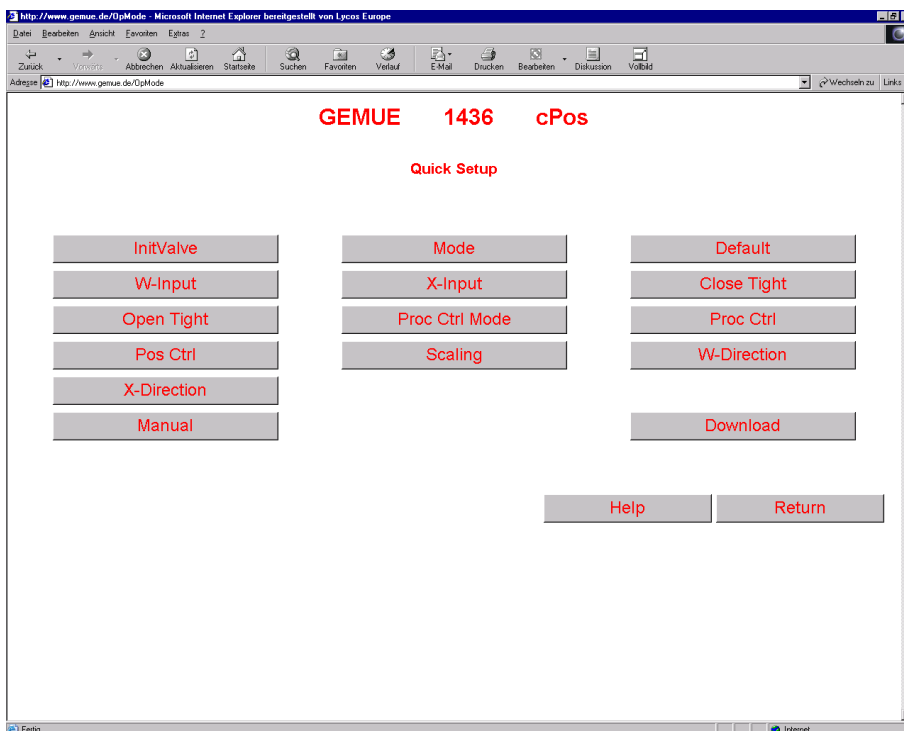
4.1 LANGUAGE

You can select the national languages German, English and Norwegian. With the function “Return”, you return back to the start screen.



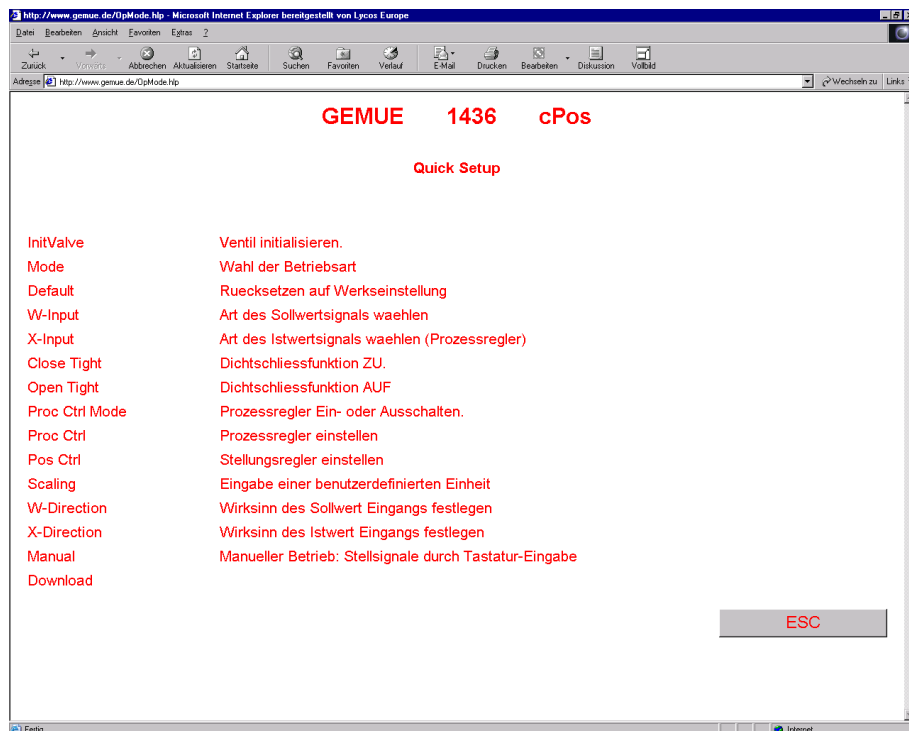
4.2 QUICK SETUP

You can access the most important basic functions for the GEMÜ 1436 cPos with the buttons. With the button “Return”, you return back to the starting screen.



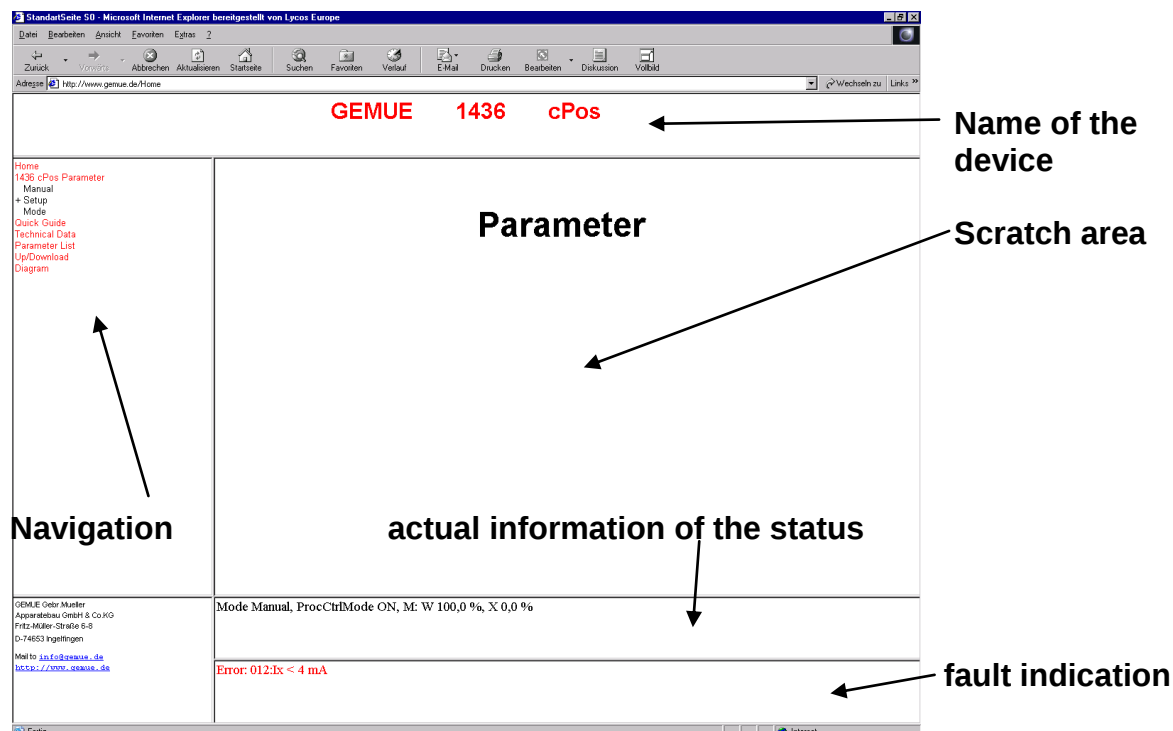
“Help” explains briefly the different buttons. If you stay with the pointer of the mouse on a button, you’ll also get an explanation for this button.

“ESC” brings you back in the Quick Setup.

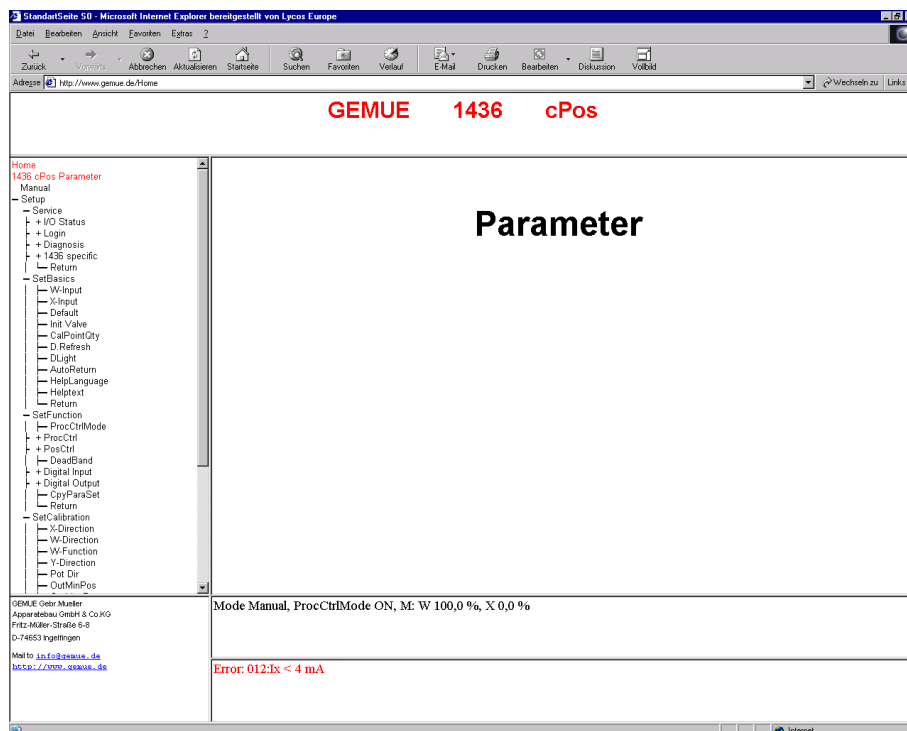


4.3 ADVANCED SETUP

“Advanced Setup” - setting further functions and parameters.
The screen in this menu is subdivided into different areas.

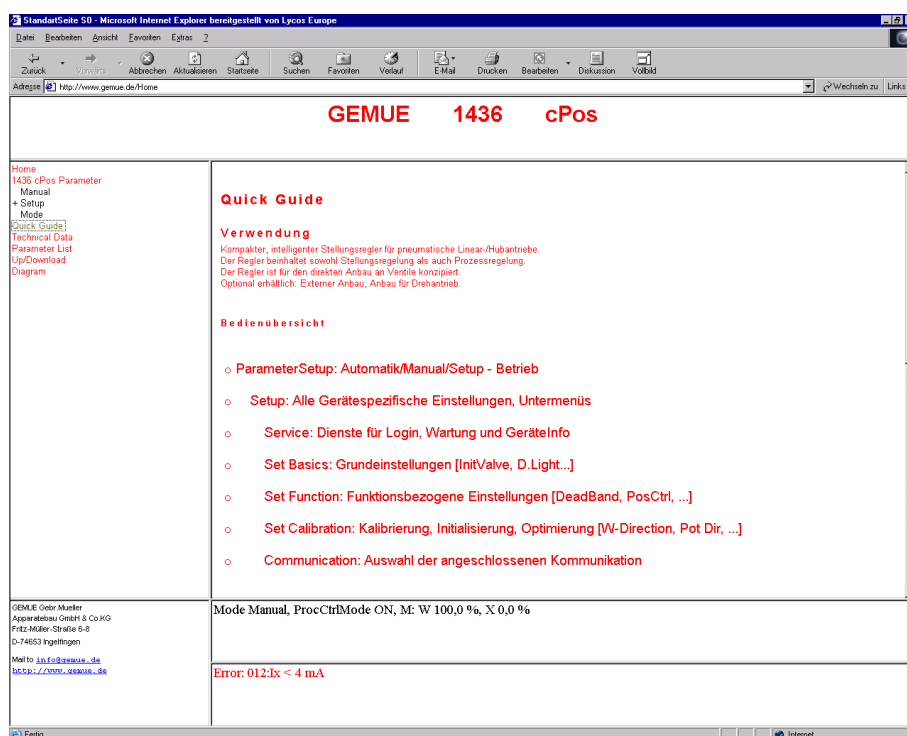


If you click in the navigation list a menu, a submenu will open and different parameters can be selected.



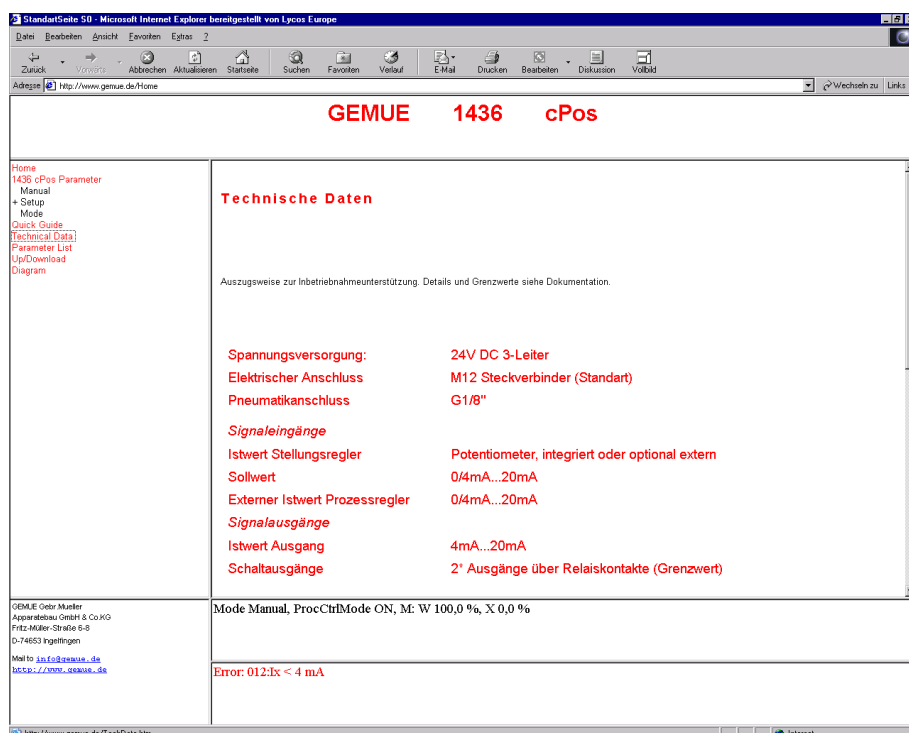
4.4 QUICK GUIDE

In the “Quick Guide” you get information about the main functions, instructions and other helpful information.



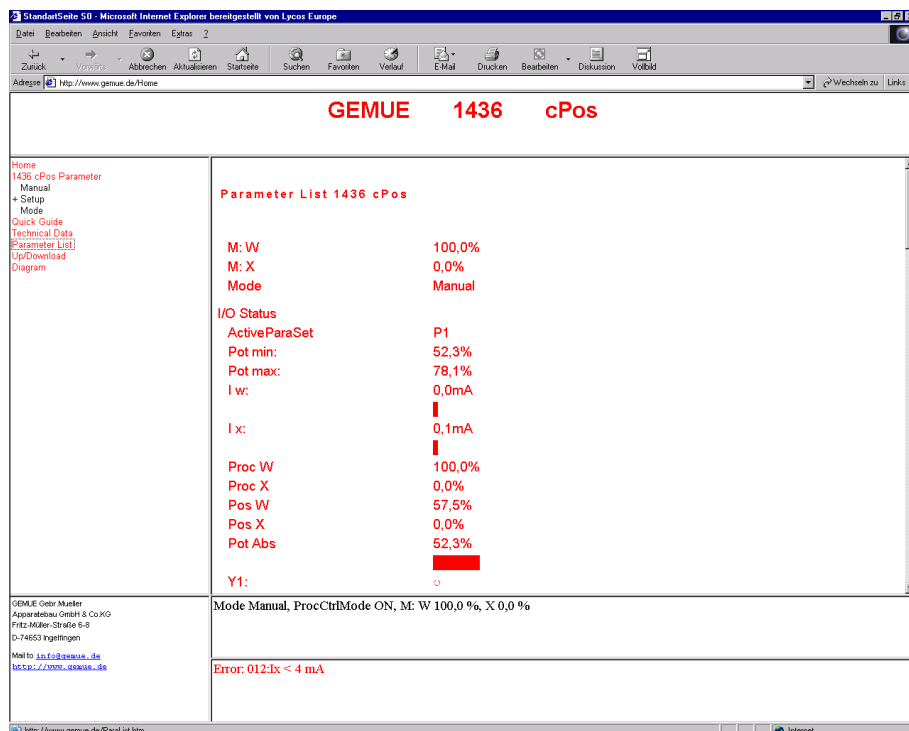
4.5 TECHNICAL DATA

The technical datas of the positoner are listed in the menu.



4.6 PARAMETER LIST

All the adjusted parameters of the positoner are displayed in the menu „Parameter List“.



4.7 UP / DOWNLOAD

All adjusted parameters of the positioner could be downloaded and stored in the menu **Up / Download**.

The screenshot shows the GEMÜ 1436 cPos web interface. The main menu on the left includes: Home, 1436 cPos Parameter, Manual, + Setup, Mode, Quick Guide, Technical Data, Parameter List, Up/Download, and Diagram. The central area is titled "Download Seite" and "Up / Download". It contains a table with the following rows:

Download	Parameter form cPos to Parafile	Download	Info
	Parameter to Text	Download	Info
	Errorlist	Download	Info
Upload	Parameter from Parafile to cPos	Upload	Info
		Durchsuchen...	

Annotations with arrows point to the "Info" buttons in the table:

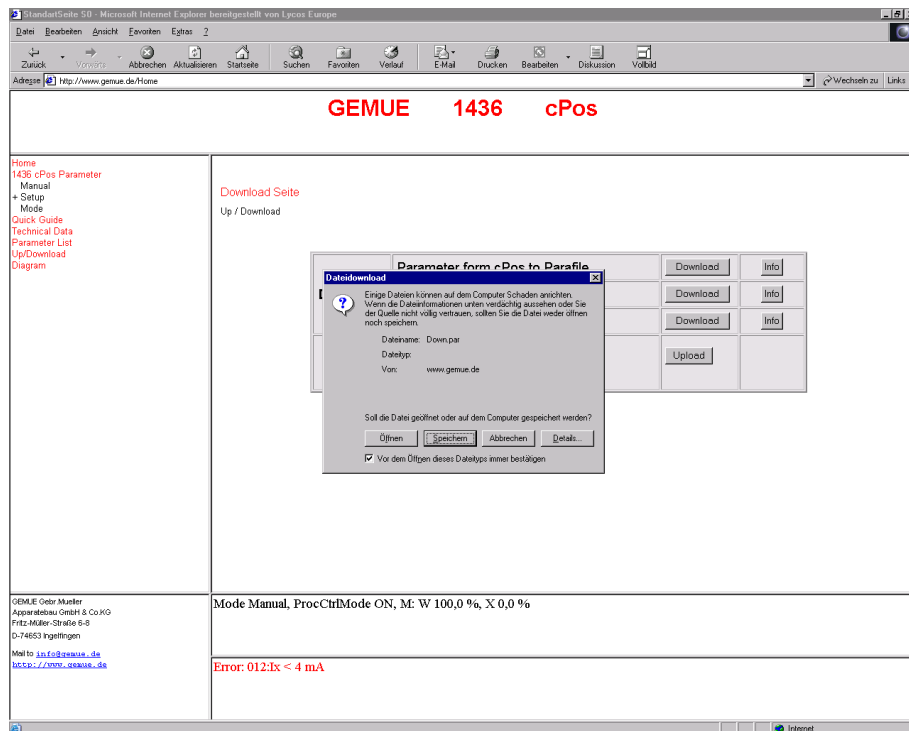
- Parameter from cPos to Parafile:** Parameter will be stored as a file
- Parameter to Text:** Parameter will be stored as a text file.
- Errorlist:** The errorlist will be stored as a text file.
- Parameter from Parafile to cPos:** Stored parameter will be loaded on the positioner.
- Information (see below)** points to the "Info" button for the "Errorlist" row.

At the bottom of the interface, the status bar shows: "Mode Manual, ProcCtrlMode ON, M: W 100,0 %, X 0,0 %" and "Error: 012:Ix < 4 mA".

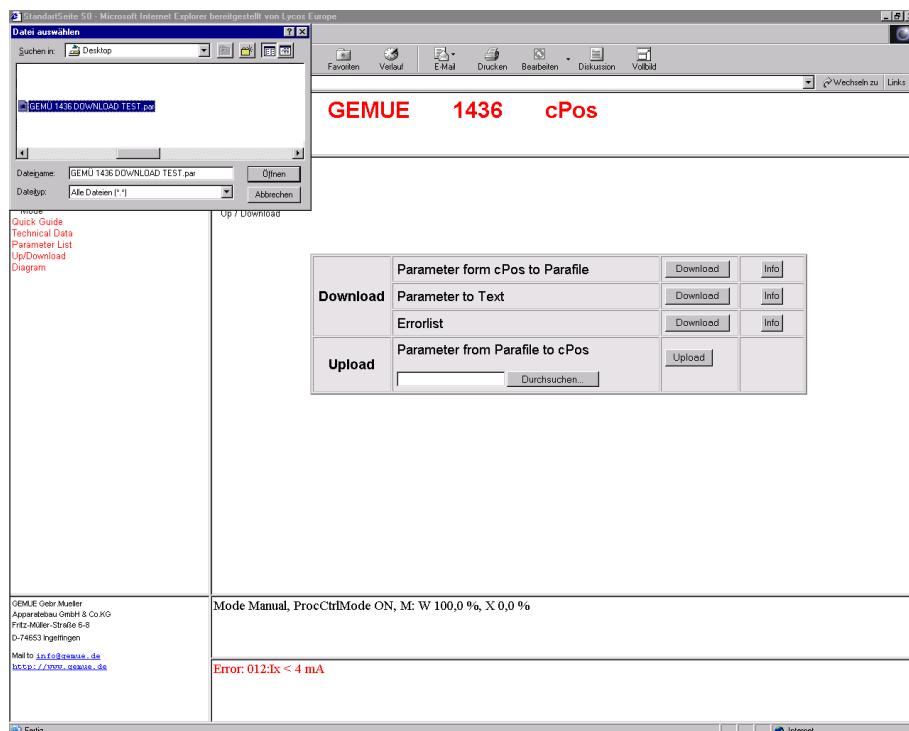
If you select the button "Info", information can be added to the stored data.

This screenshot shows the "Parameter Info" dialog box that appears after clicking the "Info" button. The dialog box has a title bar "Download Seite" and a subtitle "Parameter Info". It contains a text area with the text: "Download GEMÜ 1436 cPos 'TEST'". Below the text area are "OK" and "ESC" buttons. The background of the web interface is visible, showing the same menu and status bar as the previous screenshot.

To store parameters after selection of the download function, you have to select the button “Store”.



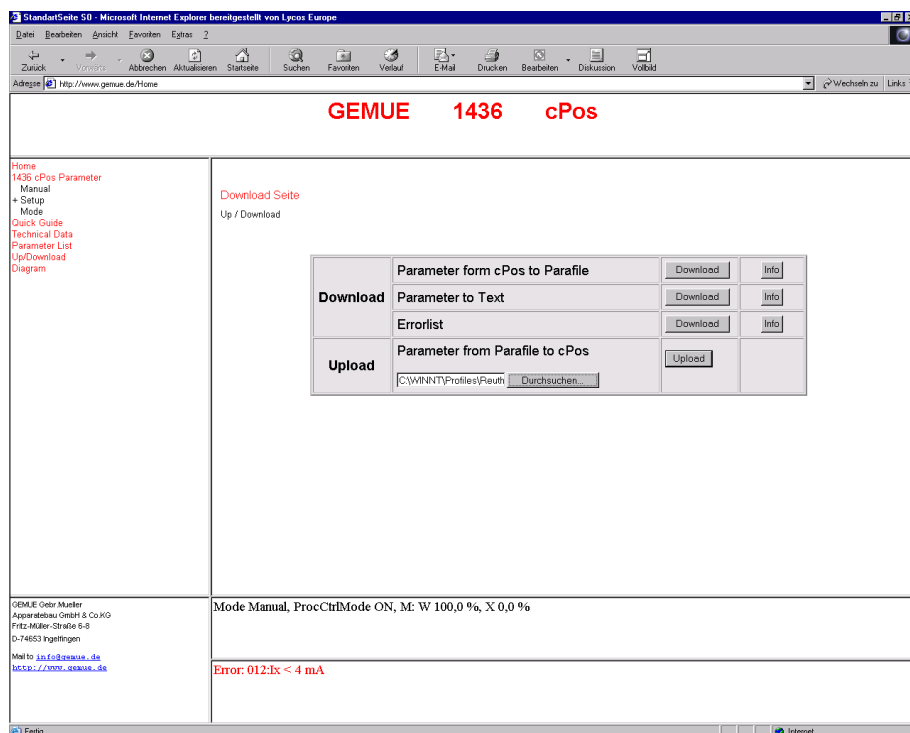
In this window you have to named the file and define the memory location.





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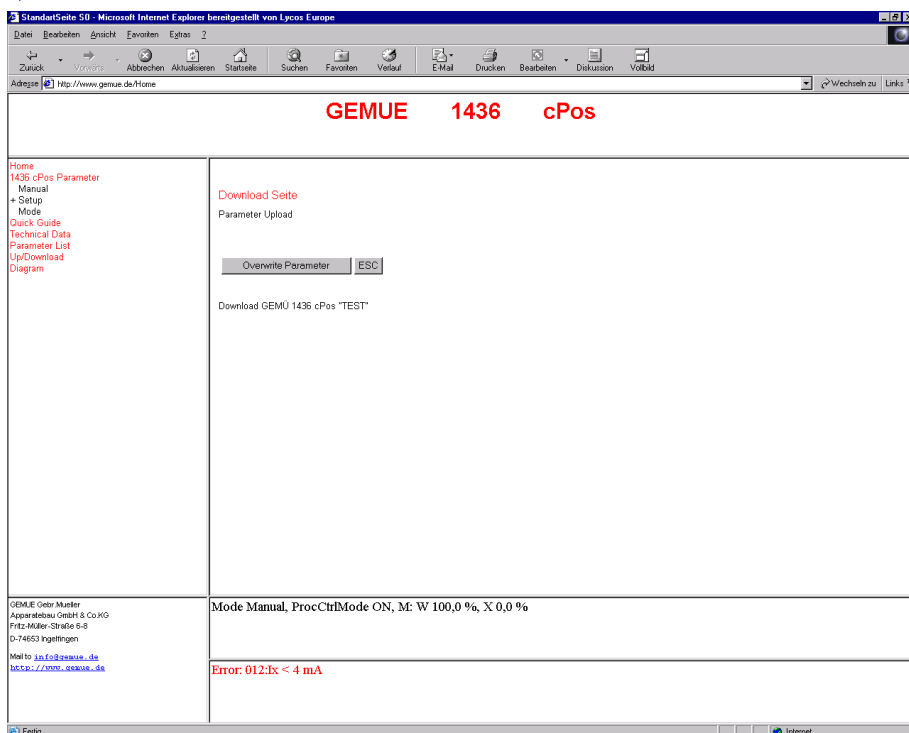
To upload parameters into the positioner, select the button “Search” then select the button “Upload”.



To upload the paramter into the positioner you have to select the button “Overwrite”.



Attention! Stored parameters in the positioner will be overwritten!

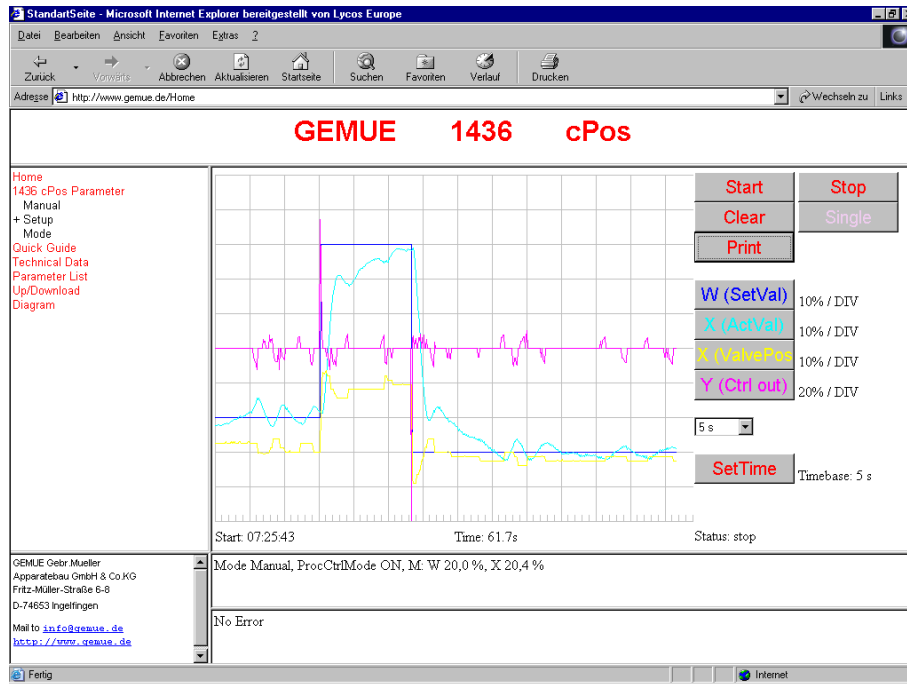


Browser operating
PC

8.8 GRAPHING DIAGRAM FUNCTION

Selecting the menu “Diagram” opens a window with a oscilloscope - function.

There is the possibility to figured the characteristics of the set-value, the actual-value and, the position and the speed of the valve.



Start:

Start the oscilloscope function

Stop:

Stop the oscilloscope function

Clear:

Delete the actual characteristics

Print:

Print the displayed oscilloscope screen

Single:

Documentation the period of a window

SetTime:

Time base of X-Axis

W (SetVal):

Documenting the based set value

X (ActVal):

Documenting the based actual value (signal of a closed set value sensor)

X (ValvePos):

Documenting of the valve position

Y (CtrlOut):

Shows the direction and the speed of the valve in process.



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VENTIL-, MESS- UND REGELSYSTEME

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