Handling-Short Instruction for PG-USB Cable 9359-1 V1.5



The PG-USB-Kabel is an interface cable for the 15pin PG-Port X4/X5 of a S5 plc. The cable should be connected to the USB-Port (type A-connector). This cable will be active against the plc while the power will be taken from the usb-port of the PC. For some special slot cards for the S5 you can get some special adapters with the several pinning of this card.

This cable can be prolonged with the classic prolongation (pin 2+9 and 6+7 itself drilled) up to 100m 1to1 pin.

In the Case of the Cable are 2 LED's embedded

GREEN lights when data is transferred to the PLC YELLOW lights when data is transferred from PLC to PC

Install the cable

First connect the PG-USB cable into a free USB-Port of your computer. Please download from the below listed web-side the USB-driver for the PG-USB-cable.

Extract the file on your PC and guide the starting hardware-installation-wizard to this folder. The software will install the drivers for the PG-USB cable automatically.

After the driver is installed successfully the COM port is displayed in Control Panel → System → Device manager \rightarrow COM and LPT \rightarrow Properties (Right mouse click) \rightarrow Extended.

If you changed the COM-Port-Number, restart the PC to activate this COM-Port. After restart choose in the application the selected COM-Port in the configuration.

Using the original Siemens S5 software in a DOS window

Do you use the original Siemens S5 patch once. You can download this named web-side and install it on that PC. Go on with choosing the language. with "OK". Press "Install" and choose installed. The installation routine is now have to select the used COM port. Then "End" as soon as the installation is

Attention: For the Step5-Original COM4 selected. If necessary change the select "System". In the Tab "Hardware", Device-Manager the virtual COM-Port is and LPT)", Right click "USB Serial Port "Properties". In the following dialog the button "Advanced", in the next dialog you could choose the COM-Port.





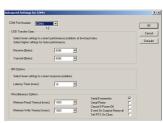
software, then you need to run the S5-"Step5 additional driver" also from the

Select the PG-USB cable and confirm the folder where the S5 software is searching for the S5 software. Next you the S5 patch will be installed. Press completed.

application there **must** be one COM1 to COM port. Go to the Control Center, click button "Device manager". In the listed in the section "Interfaces (COM (COMx)", in the Context Menu choose select the tab "Port Settings". Click onto

Using S5 Original-Software under Windows 98

A virtual created COM port cannot be used directly from a MSDOS Box (Windows 98). The solution is easy just install the "S5 VCOM for Win98". In the PG-USB menu expand the tree and select the entry "S5 VCOM for Win98". Choose the language and enter the path where the software should be installed. Select the name for the start menu and click next to proceed with the installation. After the End of the Installation the PC must be rebootet. S5 VCOM is installed into the Autostart-Directory



and is started every time the PC boots. If an error occurs while installation or starting of driver, a message is shown. If correctly installed, on the bottom-right corner of the Screen a new tray icon is displayed. The software should be installed. Select the name for the start menu and click next to proceed with the installation. After the End of the Installation the PC must be rebootet. S5 VCOM is installed into the Autostart-Directory and is started every time the PC boots. If an error occurs while installation or starting of driver, a message is shown. If correctly installed, on the bottom-right corner of the Screen a new tray icon is displayed.

This Tray-Icon shows, if a PG-USB-Cable is communication is in progress.(S=from PC to

If you double-click displayed:

In the section State is

communication

In the section virtual on the left side is the Windows-Software Ports) of the MS-



connected or not, and if a S5,E=from S5 zu PC) on the Tray-Icon a new Dialog is

displayed which Interface-Cable is used and if a connection exists.

Port the following information is shown COM - Port which is used from and on the right side the COM-Port (IODOS Box. This COM-Port should be

selected in the S5-Software. According which COM - Ports already exists, the next free COM-Port will be used:

existing COM	from S5VCOM used
NONE	COM1 [03F8h,IRQ4]
COM1	COM2 [02F8h,IRQ3]
COM1,COM2	COM3 [03E8h,IRQ4]
COM1,COM3	COM2 [02F8h,IRQ3]
COM1,COM2,COM3	COM4 [02E8h,IRQ3]

In the section Program you could exit the application, change the language of the application or minimize to the tray-icon.

PG 95 / PG 2000

Select under Options
Interface the corresponding virtual COM-Port.

S5 for Windows

In Files → Poperties → Interface select the Protocol "S5" and the virtual COM-Port

Accessories

AG-150-Adapter for PG-USB-Kabel CP525K-Adapter for PG-USB-Kabel Sinum-Adapter for PG-USB-Kabel CP525-Adapter for PG-USB-Kabel WF470-Adapter for PG-USB-Kabel PG-USB Lengthen set

S5-LAN Module (Programming the S5 over Network)

Further interface-cable for \$5

PG-UNI-Kabel

- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of
- Galvanically separably to 1kV with PG ISO adapter
- Prolongable up to 300 meters
- Complete electronics in the plug housing
- Supply from the PLC over the current sources of the PG-port
- Functioned also at some CP's, IP's and Sinumerik controls

PG-UNI-II Kahel

- ESD firm transducer component up to 15kV
- 9pin and 15pin plug housings are made of solid metal
- For controll of data transmission, there are two LED's integrated (RxD and TxD).
- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of
- Galvanically separably to 1kV with PG ISO adapter
- Prolongable up to 300 meters
- Complete electronics in the plug housing
- Supply from the PLC over the current sources
- Functioned also at some CP's, IP's and Sinumerik controls

PG-COM-Kabel

- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of
- Complete electronics in the plug housing
- Supply from the PLC over the 5V of the PG-port

PG-ISO-SET

- Galvanically separable from pc to the plc up to 1kV
- contact-protected housing, it is plastic housing
- The set contains PG-UNI-Kabel (3m) Art.Nr.9359-3 and the PG-ISO-Adapter Art.Nr.9359-8
- Supply of the module from the plc Voltage 5V and/or 24V

SC-09-Kabel

- Couples the PC (9pol. COM-interface) with the RS485 interface port of the plc
- PLC coupling with 25pin D-Sub or with Mini-Din-plug (special adapter)
- Supply from the PLC over the 5V of the PG-port
- Complete electronics in the plug housing

PG-ISO-Adapter for PG-UNI/PG-UNI-II

- Galvanically separable from pc above the PG-UNI-Kabel to the plc up to 1kV
- contact-protected housing, it is plastic housing
- Generates a new Ground and new Current Sources for the communication
- Supply of the module from the plc Voltage 5V and/or 24V









S5-LAN++-Modul

- 3 minutes and PG interface of the S5-PLC-control is network-compatible
- AS511 via virtual COM port
- S7-TCPIP RFC1006 compatible (S7 panel to S5 PLC)
- Supply of the module from the PLC voltage 24V
- Active module, integrated power sources for TTY communication

S5-BRIDGE (LAN and WIFI communication parallel)

- 10 minutes and PG interface of the S5 PLC control is network-compatible (cable and/or WIFI)
 - AS511 via virtual COM port (cable and/or WIFI)
- S7-TCPIP RFC1006 compatible (S7 panel on S5 PLC, cable and/or WIFI)
- Supply of the module from the PLC voltage 24V
- Active module, integrated power sources for TTY communication



Netz-Adapter for PG-UNI/PG-UNI-II

- Generates new Current Sources for the communication
- Operation area: damaged Current Sources, not existing Current Sources, sanded Current Sources, passive Current Sources
- Supply of the module with 24V external



Additional adapters for PG-UNI/PG-UNI-II

general: Small Adapter, only 10cm long Plug mechanics fitting to the plc

CP525-Adapter

Connection to the **programming port** of the CP525

CP525-K-Adapter

- Connection to the **communication port** of the CP525
- This adapter can be used for following devices, too: CP524 and SAS523/525

AG150-Adapter

Only use with the Netzadapter, because plc AG150 has an passive interface port!

WF470-Adapter

Only used with the Netzadapter, because WF470 has an passive interface port!

SINUM-Adapter

This adapter can be used for following plc-type: 805, 810, 820, 840, 850, 880

Additional adapters for PG-USB

general: Small Adapter, only 10cm long Plug mechanics fitting to the plc

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Under the web-address https://www.process-informatik.de are product specific documentations or software-driver/-tools available to download.

If you have questions or suggestions about the product, please don't hesitate to contact us.

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Menutree Website:

QR-Code Website:

- + Products / docu / downloads
 - + Hardware
 - + Programming devices
 - + Programming adapter S5
 - + S5 over USB
 - + PG-USB

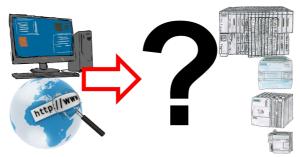






Please make sure to update your drivers before using our products.

Interface-products for S7-PLC



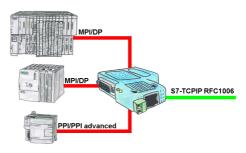
Communication with S7-PLC, just how and with what?

Data communication with S7-PLC from PC or other devices, which interface fits on/to my controller. All questions you don't have to worry about. With "Programming adapter S7" you get the right interface for PPI, MPI and Profibus.

Select the interface of your PC or device (serial via COM-port, USB, Ethernet (network), WIFI) and you will be shown the possible products.

Which one you use then is up to you.

Address all S7-PLCs (no matter which type) via S7-TCPIP



Networking of all S7-controllers (S7-200/300/400), for example with your production-data-acquisition, Industry 4.0 (OPC Server UA or Classic), panels and other devices that communicate via S7-TCPIP RFC1006. One module for all bus-types: PPI, MPI and Profibus.

Even the very old "S7-200" with a pure PPI-protocol can be used, regardless of the firmware version!

Direct Voice-speach-output with MESSI NG 3G



Transmission of fault messages as a voice message to several participants

MESSI NG 3G can send stored-voice-messages to specific recipients depending on the defined input and signal status. To do this, the specified phone-numbers are called according to the phone-number-plan and then the digitized voice-message is transmitted.

Depending on whether the message has been acknowledged or not, the next participant in the numbering-plan will be informed.

Let yourself for example, giving water-levels over the phone, MESSI NG 3G will do this for you.

Machine-access regardless of the manufacturer



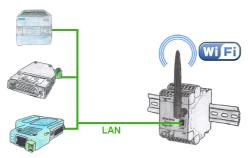
Machines from various manufacturers in the production-plant and with all of them should data be exchanged?

Before you get the machine-specific protocol from each manufacturer in order to integrate it into your application, there are easier ways to implement this requirement.

OPC-servers have many protocols from different manufacturers integrated and provide the collected data as "Server". Your application communicates as a "client" with the OPC-protocol DA (Classic) with the "Server" and thus receives the required data from all machines without knowing the respective protocol.

Access with one protocol and still have data from many manufacturers, that is OPC.

LAN-subscriber to the WiFi



You also need to network devices but dont have locally no ethernet-cable. Wifi is available? With the EtherSens-Bridge you bring immediately all connected wired participants in the WLAN network.

Connecting S7-PLCs without head-station



Direct data-exchange between S7-PLCs with S7-LAN.

Thanks to active PUT/GET directly in the module without superordinate head control! Transfer data directly from one MPI/Profibus-PLC to another.

Bus independent! MPI-bus Profibus / Profibus Profibus / MPI-bus MPI-bus