

Innovative PLC-Components



Automation 4.0



with

**Kleverles
practical tips**

PROCESS-INFORMATIK

Entwicklungsgesellschaft mbH



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SPS - Router

Simple and quick router-solutions for automation technique

S7-Firewall

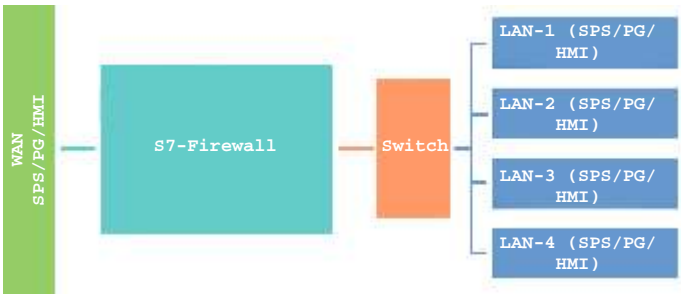
General

- Scalable "PLC-Firewall"; far beyond IP/MAC-address-filtering
- Automatic detection of the installation direction
- Protection against viruses such as S7-PLC-virus Stuxnet
- Step7-protocol filtering definable by Step7-syntax (S7-Firewall rule), complete or individual process-data-sectors can be protected, even down to the individual bits of the control, further PLCs on request.
- User-access-management for PLC- and operating-/programming-level in the machine-network,
- Access-management depends on IP/MAC-address of the immigrants
- Clear separation of read- and write-accesses
- Safe remote-maintenance-access
- Isolated maintenance area
- Alarm and event log
- optional: key switch

Features:

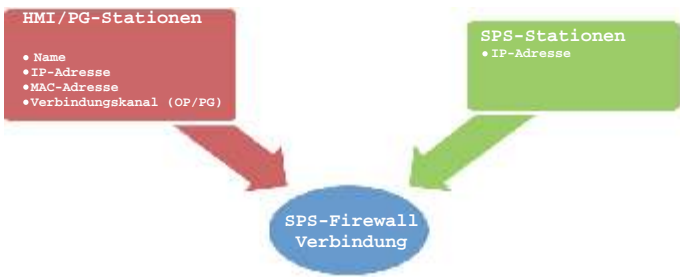
- Quick and easy configuration via integrated web-browser
- NAT
- DHCP client/server
- NTP-client
- Portforwarding
- integrated firewall
- Multiple IP addresses
Each WAN/LAN-port can each receive up to 3 different IP-addresses, so that immediately IP-networks with different network segments and addresses can be controlled remotely (eg 192.168.0.x and 10.xxx and 172.16.xx).
- Routing of individual IP-addresses between WAN/LAN-port configurable

What is the S7-firewall



S7-firewall is a scalable "PLC-Firewall", which not only filters IP/MAC-addresses. Free-defined connections can be restricted/set to any data areas of the PLC. The S7-Firewall can be installed anywhere between PLC and operator/programmer-level. The S7-firewall detects the direction of installation automatically. It will be only configured connections authorized.

How does the S7-Firewall work



The PLC-firewall-connections results of the combination of HMI/PG-station and PLC-station

S7-Firewall-settings

Firewall HMI/PG-Stationen							
		Nr.	Name	aktiv	IP-Adresse	MAC-Adresse	Verbindungskanal
		1	OP1 (70)	<input checked="" type="checkbox"/>	192.168.0.70	00:0C:29:55:E4:79	OP/HMI
		2	PG1 (71)	x	192.168.0.71	00:00:00:00:00:00	OP/HMI PG
		3	OP2 (72)	x	192.168.0.72	00:0C:29:55:E4:79	PC
		4	PG2 (120)	x	192.168.0.120	00:00:00:00:00:00	PG
		7		x	0.0.0.0	00:00:00:00:00:00	OP/HMI



Firewall SPS-Stationen

		Nr.	Name	aktiv	IP-Adresse
		1	Anlage 1 / S7-300	<input checked="" type="checkbox"/>	192.168.0.80
		2	Anlage 2 S7-400	x	192.168.0.149
		3			0.0.0.0

S7-Firewall Verbindungen

		Nr.	Name	aktiv	HMI/PG	SPS	erlaube PG-Funktionen
		1	OP-Anlage 1	x		Anlage 1 / S7-300	
		2	PG1 Anlage1	x	PG1 (71)	Anlage 1 / S7-300	x
		3	OP- Anlage2	x	OP2 (72)	Anlage 2 S7-400	
		4	PG1-Anlage2	<input checked="" type="checkbox"/>	2 PG1 (71)	2 Anlage 2 S7-400	<input checked="" type="checkbox"/>

The connections are formed from the combination of HMI/PG-station and PLC-station. Each HMI/PLC-station can be used repeatedly. Upon change from Mac- or IP-address this need only be changed centrally in the HMI/PG-station and PLC-station. Each connection is so rted to a connection rule.

The rule-script

S7-Firewallregel

OP-Anlage 1 (OP): Hmi/PG:OP1 (70) (OP/HMI) IPAdr:192.168.0.70 MAC:00:0C:29:55:E4:79 --> PLC:Anlage 1 / S7-300 IPAdr:192.168.0.80

```
# S7-Firewall. Liste der erlaubten Schreibzugriffe.
# Syntax:
# Erste Zeichen '#' ; ';' : Zeile ist Kommentar
# Erstes Zeichen '#' ; ';' ; '/' : Zeile ist Kommentar
# Adressen:
# DB Bx, Bit y.z : DBx.DBy.z
# DB DB x, Byte y : DBy.DBBY
# E | A | M Bit x.y : E x.y / I x.y | A x.y / Q x.y | M 10.1
# E | A | M Byte x : EB x / I x | AB x / QB x | MB x
# E | A | M Wort x : EW x / IW x | AW x / QW x | MW x
# E | A | M Doppelwort x: ED x / ID x | AD x / QD x | MD x
# Timer n: Tn
# Counter n: Z n / C n
# Beispiel Merkerwort 200:
# MW 200
# Beispiel für Bereich von MB 9 bis MB 20
# MB 9 - MB 20
r:MD4,3
r:MB1-MB2
r:MW1-MW2
rw:MW20
rw:DB300.DBB0 - DBB20
#r:MW0
r:EB0 - EB 20
r:MW1,2
r:MW1-MW3
r:DB10.DBD20,10
MB90
```

In the rule-scripts would the data areas or possible access for the specified connection settled. The script can be accessed via the link of the connection.

Log (Abweisungen)								
Nr.	Grund	AC	Anz	PC/PG-IP-Adr.	MAC-Adr.	Verbindungskanal	SPS-IPAdr.	Adresse
1	!DataDenied	WrData	98	192.168.0.70	00:0C:29:55:E4:79	HMI	192.168.0.80	w:DB23.DBB 23,20
2	!DataDenied	RdData	98	192.168.0.70	00:0C:29:55:E4:79	HMI	192.168.0.80	r:DB143.DBB 143,20
3	!DataDenied	WrData	98	192.168.0.70	00:0C:29:55:E4:79	HMI	192.168.0.80	w:DB143.DBB 143,20
4	!DataDenied	RdData	98	192.168.0.70	00:0C:29:55:E4:79	HMI	192.168.0.80	r:DB144.DBB 144,20
5	!DataDenied	RdData	7	192.168.0.135	00:0C:29:1B:C3:46	HMI	192.168.0.80	r:MW 102,1

With the learn-mode you can define easy and fast new rules for the S7-Firewall.

Up to 3 IP-addresses per port

Netzwerkeinstellungen			
Standard Gateway:	192.168.0.254	fest	
1. DNS:	192.168.0.254	fest	
2. DNS:	0.0.0.0	auto (DHCP)	
1. IP-Adresse:	192.168.0.42	Netmask:	0.0.0.0
2. IP-Adresse:	0.0.0.0	Netmask:	0.0.0.0
3. IP-Adresse:	0.0.0.0	Netmask:	0.0.0.0

DHCP-Einstellungen			
DHCP:	nein	Domain:	
Start-IP:	192.168.0.170	End-IP:	192.168.0.171
1. DNS:	0.0.0.0	2. DNS:	0.0.0.0
		3. DNS:	0.0.0.0

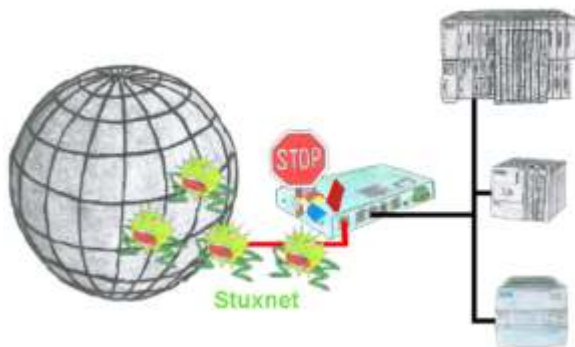
Dienste am Interface		
Web-Config(80,8080)	Ping	SSH
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The WAN/LAN-port has shared IP-addresses, it can up to 3 different IP-addresses and subnets configured.

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3,6 Watt
Display:	Web-Browser 4 Status-LEDs
Handling/Configuration:	Web-Browser Taster for factory settings
Interfaces:	1 x 10/100BaseTX RJ45-Ethernetjack for WAN-Port 4 x 10/100BaseTX RJ45-Ethernetjack switched all Ethernetports are Auto MDI-X (auto negotiation)
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	154 x 92 x 28 mm
Commercial data:	
EAN number:	4260363241281
HS-code:	85389099
Weight:	0.5000 kg

Protection against virus attacks

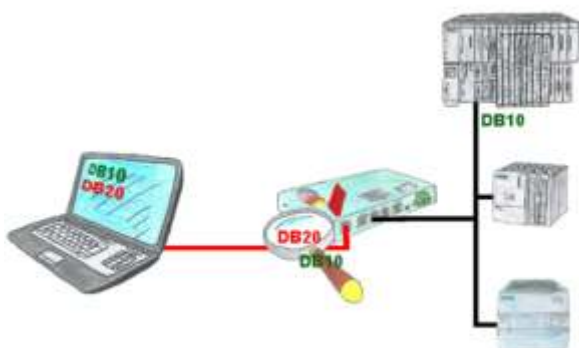
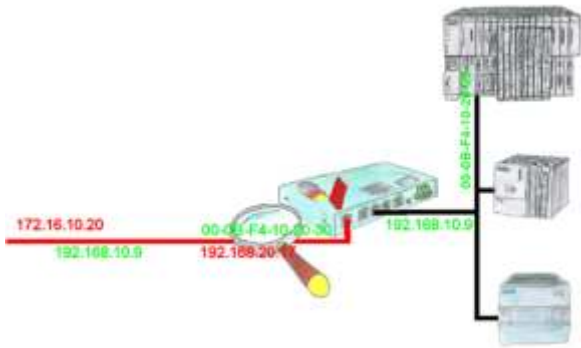


Protection for data-dump and modification



You want to protect your system from viruses? No problem, with the S7-firewall you secure your system against virus attacks, like the virus "Stuxnet" and thus prevent destruction to your system and process data.

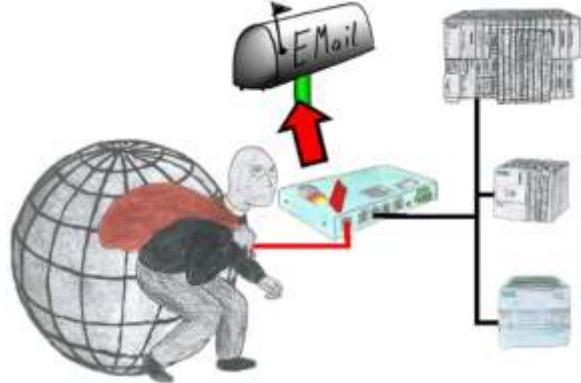
You want to protect your system against unauthorized access and changes? No problem, with the S7-firewall you secure your system against unauthorized access and thus prevent deduction or alteration of your system and process data.



You have in your facility machines from different manufacturers and no one does get access to the controls of the other? No problem, with the S7-firewall you can filter who can ever communicate with the control network and which user with which end users. This is done through the IP address and MAC address.

You have in your facility machinery with complex program structures and want to prevent that the users do not change comprehensible content? No problem, with the S7-firewall you can assign specific data fields to each user or even generally protect certain data areas in the PLC.

Log messages via e-mail



You want to be informed of access violations and range errors in the communication with your controls? No problem, with the S7-firewall you can be informed about each of these attacks / injuries by email to determine each polluter.

article:		
Art. ID.	name	price
9373-S7-FIREWALL	S7-Firewall OEM - Version (all accessories optional)	690,- €

options:		
Art. ID.	name	price
9373-O-LEARN	Option for S7-Firewall: Learnmode Monitors the current traffic in the learn-mode, creating the appropriate rules for equipment requests and setpoints	170,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	49,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	120	10,- €
9636-TCPIP02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	121	14,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

TeleRouter

General

- 4 port ethernet switch
- 1 additional WAN port for routing
- IPV6-Ready
- Super simple VPN-Gateway
- Network routing user-oriented & password-protected



Dial in router

- Analog (worldwide usage) or ISDN or PPPoE
- S7-PP/MP/DP via S7-LAN
- S7-1200 or S7300/400 with Profinet-Interface
- S5 via S5-LAN++

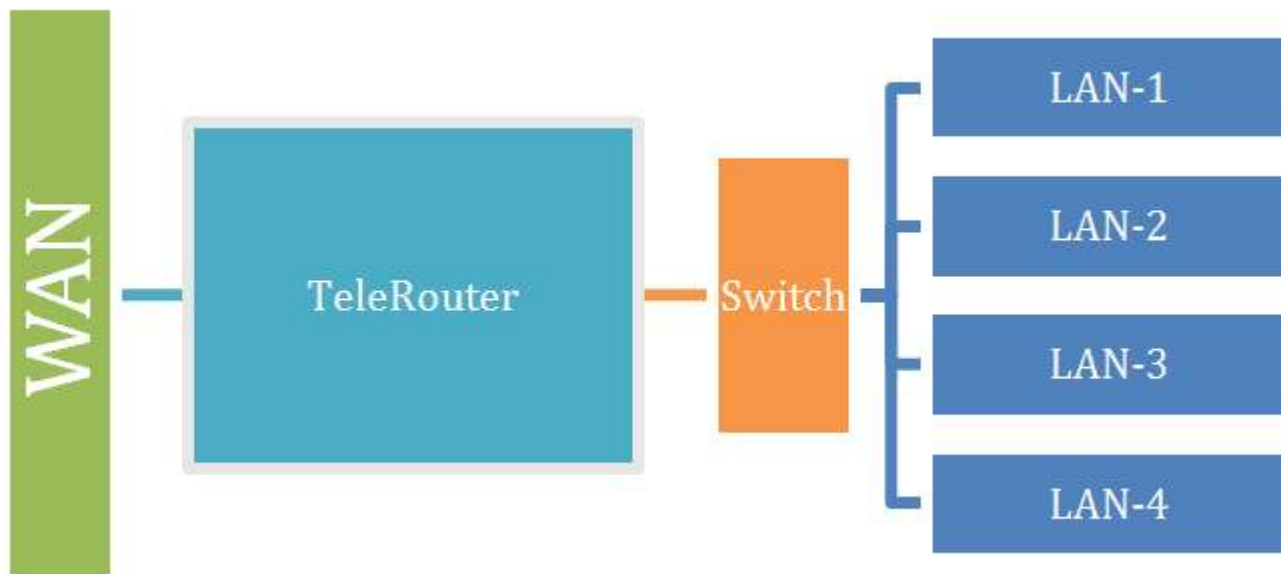


Features:

- Integrated webserver for configuration of the users
- PPP
- PPPoE (operation with DSL/cable-modem)
- IPV6-Ready
- NAT
- VPN
- DynDNS-support
- DHCP Client/Server
- NTP-Client
- Portforwarding
- Automatic CALL-Back
- Router-mode
 - Modem <--> LAN
 - Modem <--> WAN
 - WAN <--> LAN
 - User-specific routing (optional)

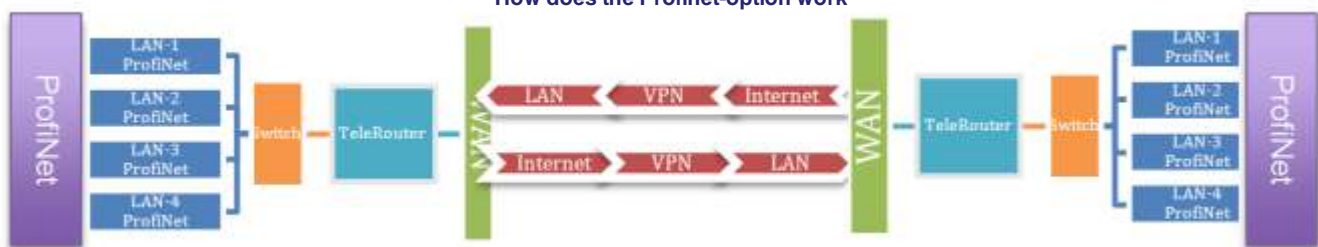
For each user definable, which devices (ip-addresses) and to which port may be accessed
- Multiple IP addresses
Each WAN/LAN-port can get up to 3 different ip-addresses to make immediately with various IP networks and network segments and addresses (eg 192.168.0.x and 172.16.x.x and 10.x.x.x) remote maintenance.
- Routing of individual ip-addresses between WAN/LAN-ports configurable
- Integrated phone-/user-directory:
In the device telephone- and VPN-users and stored and by clicking on a button, a modem-/VPN-connection is built up to the desired target.

What is the TeleRouter



TeleRouter is a scalable router with 4 x LAN - switch port, 1 x WAN port. Optionally can be installed an analogue- or ISDN-modem

How does the Profinet-option work



If Profinet is enabled, the TeleRouter is used to connect/remote-maintenance of Profinet-networks. The Profinet-connection is realized via a secure VPN-connection. The VPN-connection can be established via WAN (TCP/IP) or WAN/PPPoE.

Routing FW-Regeln						
		Nr.	Name	Protokoll	Port	IP-Adresse
		1	ARP erlauben	ARP		0 0.0.0.0
		2	S7-Wartung	tcp	102	0.0.0.0
		3	Ping erlauben	tcp		0 0.0.0.0
		4	<input type="text"/>	tcp	0 <input type="text"/>	<input type="text"/>

Normally the routing is allowed on all network nodes. Once an entry exists in this table, access only on the rules above will be possible. In the standard-edition, the routing is possible only to LAN or from LAN.

Why DynDNS is required

DynDNS Konfig	
verwende DynDNS:	Nein
DynDNS Hostname:	<input type="text"/>
DynDNS Username:	<input type="text"/>
DynDNS Passwort:	<input type="text"/>
Update-Intervalls(min):	0

When the TeleRouter will be achieved through Internet for e.g. through OpenVPN, the internet-IP-address must be known. It is useful here not to work with a fixed IP-address, as the provider for a new connection (e.g. via PPPoE) possibly allocate a new IP-address. It is more sensible to address the device with the same domain name.

Up to 3 IP-addresses per port

WAN/LAN-Einstellungen					
WAN Einstellungen					
1. IP-Adresse:	<input type="text" value="192.168.1.57"/>	Nestmask:	<input type="text" value="0.0.0.0"/>		
2. IP-Adresse:	<input type="text" value="0.0.0.0"/>	Nestmask:	<input type="text" value="0.0.0.0"/>		
3. IP-Adresse:	<input type="text" value="0.0.0.0"/>	Nestmask:	<input type="text" value="0.0.0.0"/>		
Dienste am Interface					
DHCP:	nein	DHCP:	<input type="text"/>	Router-IP:	<input type="text" value="0.0.0.0"/>
Start-IP:	<input type="text" value="0.0.0.0"/>	End-IP:	<input type="text" value="0.0.0.0"/>	Subnet:	<input type="text" value="0.0.0.0"/>
1. DNS:	<input type="text" value="0.0.0.0"/>	2. DNS:	<input type="text" value="0.0.0.0"/>	3. DNS:	<input type="text" value="0.0.0.0"/>
LAN Einstellungen					
1. IP-Adresse:	<input type="text" value="192.168.2.1"/>	Nestmask:	<input type="text" value="255.255.255.0"/>		
2. IP-Adresse:	<input type="text" value="0.0.0.0"/>	Nestmask:	<input type="text" value="0.0.0.0"/>		
3. IP-Adresse:	<input type="text" value="0.0.0.0"/>	Nestmask:	<input type="text" value="0.0.0.0"/>		
LAN DHCP-Einstellungen					
DHCP:	nein	Domain:	<input type="text"/>	Router-IP:	<input type="text" value="0.0.0.0"/>
Start-IP:	<input type="text" value="0.0.0.0"/>	End-IP:	<input type="text" value="0.0.0.0"/>	Subnet:	<input type="text" value="0.0.0.0"/>
1. DNS:	<input type="text" value="0.0.0.0"/>	2. DNS:	<input type="text" value="0.0.0.0"/>	3. DNS:	<input type="text" value="0.0.0.0"/>
Dienste am Interface					
Web-Config(80,80080)	Ping	SSH			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

The WAN/LAN-port has shared IP-addresses, it can configured up to 3 different IP-addresses and subnets.

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	6,5 Watt
Display:	Web-Browser 4 Status-LEDs
Handling/Configuration:	Web-Browser Taster for factory settings
Modem-speed: (depending on the device- variants)	Analogue: 56 KBit/s ISDN: 64 KBit/s Ethernet: 1 x 10/100BaseTX RJ45-Ethernetjack for WAN-Port 4 x 10/100BaseTX RJ45-Ethernetjack switched all Ethernetports are Auto MDI-X (auto negotiation) Modem: 1 x RJ45-jack for ISDN modem or RS232 (alternativly) 1 x RJ12-jack for analog modem (alternativly)
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	154 x 92 x 28 mm
Commercial data:	
EAN number:	4260363240994
HS-code:	85389099
Weight:	1.0000 kg

Universal coupling



Integrated WebServer



You would like to use a device that is small and handy and reasonably parameterizable yet? No problem, with the TELE-Router you fulfill all these requirements. The device is parameterizable via an integrated web server, connections self-explanatory.

You need a family of devices with which you can solve all your requirements? No problem! With the TELE-router you are able to establish a connection via analog, ISDN or PPPoE (DSL cable modem). The devices are compatible with each other in each case, so that no further additional hardware is needed.

Operation on DSL-cable-modem



You are looking for a device which can be operated even with DSL? No problem, just plug in your TELE-router to a DSL cable modem, enter the parameters relating to the access data into the device and you are connected to Internet.

Secure access through VPN



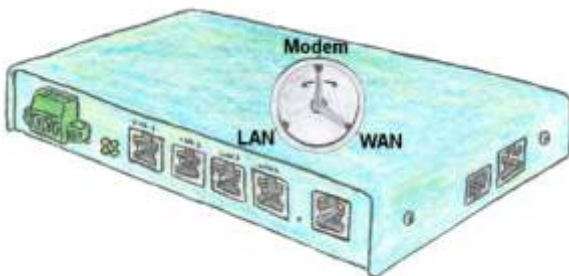
You are looking for a device that allows you to realize the remote maintenance via the Internet without compromising security? No problem! With the TELE-router you can instantly build a VPN connection after parameterization and after registering, you can communicate with your facilities. An associated VPN client for the PC can be downloaded from the download page.

Integrated Firewall-protection



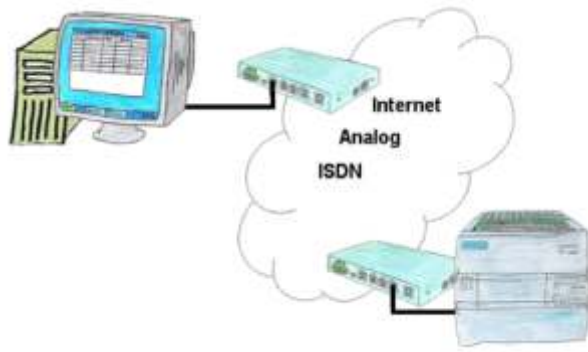
You looking for a device with which you can create a remote maintenance via the Internet without compromising security? No problem, the TELE-Router offers exactly this feature. With the built-in firewall, you can adjust the device completely to your requirements.

Universal router



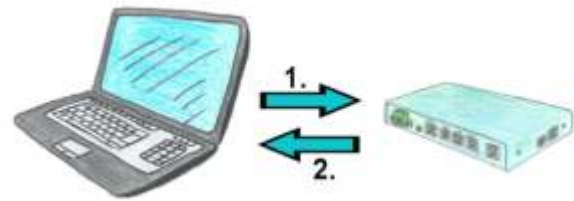
You need to be realized a flexible device for the remote maintenance of your systems? No problem with the TELE-Router you have a device that you can set easily and quickly to the requirement. Whether you need a connection between the modem and LAN, modem and WAN or LAN and WAN.

Integrated phone-book



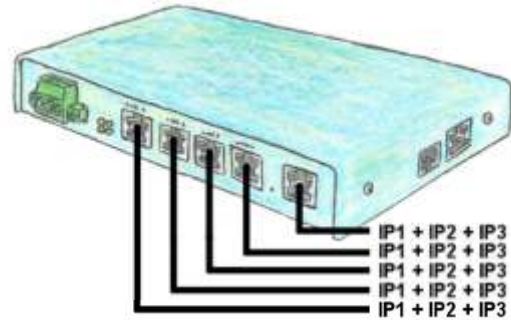
You have to consider several facilities and do not want to keep a watch list with phone numbers? No problem, the TELE-router contains a phone book, so you any time maintain the entire data connection in the router and build to the opposite side by clicking the link in the web browser.

Saving of phone cost through call-back



You need a communication over the phone with your operation of facilities, but do not want to pay the phone bills? No problem, with the TELE-router you are able to work even with recall. This means that you first call the device and tell him that you want a call back. If the credentials are correct and the recall is permitted, the TELE-router connection is terminated and then it calls back the transferred number. Your customer shall bear the cost of the connection.

Universal network-administration



You need to remote maintenance multiple networks simultaneously and your existing switch / router does not have that many ports? No problem, with the TELE-Router you are able to assign up to 3 IP addresses to each LAN / WAN port, so you can communicate with the various segments and networks.

article:		
Art. ID.	name	price
9373-ANALOG	TELE-Router analogue (worldwide usage) OEM - Version (all accessories optional)	440,- €
9373-ISDN	TELE-Router ISDN OEM - Version (all accessories optional)	520,- €
9373-PPPOE	TELE-Router PPPoE (operation on DSL-/cable-modem) OEM - Version (all accessories optional)	390,- €

options:		
Art. ID.	name	price
9373-O-AUTOSAVE	Option for TeleRouter: Autosave/Restore Automatic saving of user-definable data- and program areas	110,- €
9373-O-DIAGNOSE	Option for TeleRouter: Diagnosis-module - Display in the network structure available of all simatic S7-systems - Displays properties/diagnostic-buffer of each simatic S7-PLCs	110,- €
9373-O-EMAIL	Option for TeleRouter: E-Mail/Fax/SMS-messaging Configurable web-based reporting system for sending messages and reports by E-Mail/Fax/SMS	110,- €
9373-O-HMI-MODUL	Option for TeleRouter: HMI-module Configurable web-pages for visualization/controls of S7-PLCs without PLC-programming. Display of values and variables (status), control elements such as knobs and switches. Available for PC's and mobile-devices (mobile / tablet)	220,- €
9373-O-ADRCRG	Option for TeleRouter: IP-Address Changer Take participants with identical IP-addresses in any networks	110,- €
9373-O-LAN-MODEM	Option for TeleRouter: LAN-modem Connecting an external-modem via the LAN-interface	110,- €
9373-O-OVPN-EXPERT	Option for TeleRouter: OpenVPN-expert Expert configuration of OpenVPN Managing external key-files	160,- €
9373-O-PN-ROUTER	Option for TeleRouter: ProfiNet-Router - Coupling of selected ProfiNet-stations via modem/DSL/Internet with VPN - Remote maintenance Simatic S7-ProfiNet over Internet with VPN/modem - ProfiNet telegrams Routing	110,- €

options:			
Art. ID.	name		price
9373-O-S5-S7-COM	Option for TeleRouter: S5-S7-COM - S5/H1-CP's will be RFC1006 compatible, without changes in the S5 - accessing a S5 via H1 like a S7 => WinCC with his TP's and MP's immediately accessible via TCP/IP on a S5 - S5/H1-CP in a TCP/IP-network		790,- €
9373-O-S7FW	Option for TeleRouter: S7-Firewall Scalable "PLC Firewall" more than IP-/MAC- address-filtering, it can be protected complete or single process data areas, even down to single bits of the PLC.		490,- €
9373-O-S7-LOGGING	Option for TeleRouter: S7-logging PLC controlled backup of a DB on a network-drive		180,- €
9373-O-SWITCH-MAN	Option for TeleRouter: Switch-Manager For each individual user definable, which ports are connected		110,- €
9373-O-USERROUTE	Option for TeleRouter: Userroute User-specific routing:For each user definable, which devices (ip-addresses) and to which port may be accessed		110,- €
9373-O-VPNKEY	Option for TeleRouter: VPN-Key Key-switch enables VPN-access		210,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product		49,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	120	10,- €
9373-Z-ANTENNE	GSM circular antenna PUK For GSM / GPRS-modem with LAN-interface For indoor & outdoor applications Cable length: 3m		162,- €
9373-Z-GSM/GPRS	GSM/GPRS-quadband-modem with LAN-interface for DIN-rail-mounting		762,- €
9636-TCPIP02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	121	14,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9359-LAN	S5-LAN++ Industrial Ethernet <=> S5 PD-interface (TTY)	47	390,- €
9352-LANCON	S7-LAN connector Ethernetmodule for PP/MPI/Profibus	35	399,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-ISDN	Phone-cable ISDN RJ45 plug <=> RJ45 plug, assigned 1to1	119	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

Remote maintenance

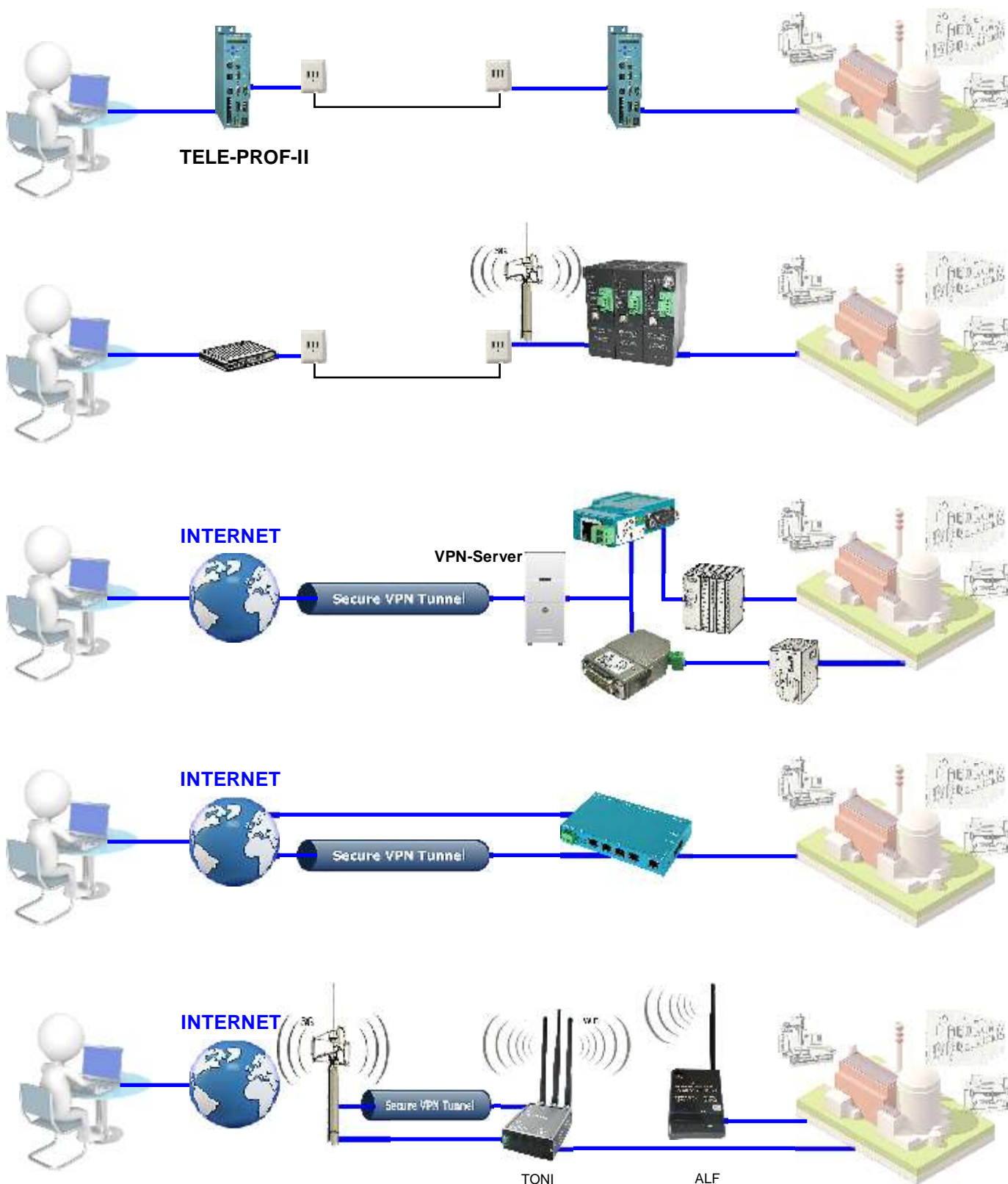


Which system programmer does not know this: On Friday, just before weekend, a call from a customer comes in: „ **The production stands still, nothing works. You have to solve this problem immediately. Otherwise...e.g.**“. No other choice than going as fast as possible to the customer to set the important system into operation.

What could be the problem? Which input, that is necessary for the release of the program, is not set? Is the problem caused by the end switch?

During the long ride to the customer, many of such questions come to mind. Then sometimes it happens, that you discover a still missing link in your PLC program. Wouldn't it be nice, to get rid of the problem simply with a phone call.

Why not? **Our remote maintenance devices are the answer to the question.**



application table:

	TELE LINK NETWORK							
	TELE-PROF-II	TELE-PROF	TELE-BOOK	MPI-Modem	TELEService	S5-LAN	S7-LAN	TeleRout
secured modem-protocol	✓	✓	✓					
additional software needed				Siemens TS -Software	Siemens TS -Software	VPN-Client	VPN-Client	
Providing WinTELEPROF-software	✓	✓	✓					
modem	analogue/ISDN	analogue	opt. via PCMCIA	analogue/GSM	analogue/ISDN/GSM	internet-connection	internet-connection	internet-connection
modem for world wide use	✓	✓	✓	✓	✓			
interfaces								
MPV/Profibus	9600-12MBd			9600-12MBd	9600-12MBd		9600-12MBd	
RS232	2x	2x	2x	1x	1x			
TTY	2x	2x	2x			1x		
PCMCIA	2x (optionally)	1x	1x					
Ethernet	10/100BaseTx					1x	1x	5x
USB	2x				1x			
LCD-display	✓	✓	✓	✓	instead 10 LEDs	instead status-LED	instead webserver	instead webserver
supported PLC-protocols *								
S7	✓	✓	✓	✓	✓		✓	
S5	✓	✓ (optional)	✓ (optional)			✓		
Pilz PSS	✓	✓ (optional)	✓ (optional)					
Allen-Bradley	✓	✓ (optional)	✓ (optional)					
AEG		✓ (optional)	✓ (optional)					
Bosch		✓ (optional)	✓ (optional)					
Telemecanique		✓ (optional)	✓ (optional)					
GE-Fanuc		✓ (optional)	✓ (optional)					
Klöckner-Moeller		✓ (optional)	✓ (optional)					
Mitsubishi		✓ (optional)	✓ (optional)					
SMS-sending/Pager(S5/S7)	✓	✓	✓		✓ (no pager)			only for analogue ISDN
HMI-messaging module(S5/S7)	✓							✓
SMS-receive with GSM					✓			
DTMF with analogue					✓			
e-mail-dispatch	✓				✓			✓
FAX-dispatch(S5/S7)	✓	✓ (optional)	✓ (optional)					only for analogue ISDN
PLC-data coupling(S5/S7)	✓	✓ (optional)	✓ (optional)			✓	✓	
ASCII-transfer from S5/S7	✓	✓ (optional)	✓ (optional)			only with ASCII-LAN		
internet-coupling	✓							
Usage as dial-up-router	✓							✓
power supply	24V/DC	24V/DC	24V/DC	24V/DC	24V/DC	24V/DC	24V/DC	24V/DC
dimensions w x h x d (in mm)	High: 67 x 280 x 170 FLAT 300 x 175 x 70	300 x 175 x 66	235 x 162 x 37	90 x 162 x 54	40 x 125 x 115	42 x 15 x 65	65 x 43 x 17	154 x 92 x 28

* other PLC types on request

TELE-LINK-NETWORK

Secure and comfortable remote maintenance with all devices of the Tele-Link-Network family

- interconnecting of all devices of the Tele-Link-Network-family possible
- multiple secure intelligent modem transmission protocol
- electronics to the telephone network and the external power supply as well as to the control system respectively to the programming unit galvanically isolated
- robust steel plate case with mounting flange



TELE-PROFessional-II (TP-II)

- Secured modem-protocol, no additional software needed
- UMTS- / VPN- / internet-service
- Also for PLC's with ProfiNet
- SMS and fax sending directly from S7-300/400 (no PLC-programming necessary)
- Analogue modem couples automatically via ISDN
- With integrated CP-343-1 / 443-1 functionality
- Ethernet also for router function
- PCMCIA-slots (only for version -H) for extensions (memory cards / specific modem cards (GSM) / WLAN)
- Compatible to the forerunner model (TELE-Prof / TELE-Book / TELE-Link)
- Also as TCP/IP-router
- S7-variables display via Web-Browser
- S7-remote maintenance with MPI-Interface
- S5-remote maintenance (access to every S5 direct / via H1, L1, L2 and KOR/MUX)
- Integrated telephone directory
- Call-back of partner possible
- Software-update via PC (LAN) respectively from device to device possible



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	15 watt
Display:	expressive LCD display 5 status LEDs
Handling/Configuration:	integrated keypad WEB-Browser
Interfaces:	to the PLC: PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd TTY/20mA current loop (AG-TELE aktiv, PLC passiv) RS232: 9,6 KBd - 115,2 KBd / fully assigned to the PD/PC: 10/100BaseTX RJ45-ethernet jack TTY/20mA current loop (100 % mechanically and electr. compatible) RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC others: 2xUSB, 2xPCMCIA (only for version -H)
Integrated modem:	33K6 HIGH-SPEED, V.42/BIS MNP5 analogue modem ISDN (Euro ISDN + 1TR6)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange and DIN-rail mounting
Dimensions:	Flat 300 x 175 x 70 mm Hoch 67 x 280 x 170 mm
Commercial data:	
EAN number:	4260363240062
HS-code:	85389099
Weight:	2.0500 kg

Remote maintenance / telecontrol of PLC



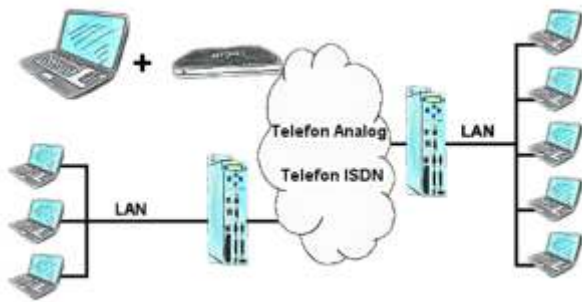
Analogue and ISDN - how do they come together?



Access to the connected PLC takes place by coupling via Analogue-, ISDN-, mixed Analogue-ISDN-, GSM-, UMTS-line and also via Internet with and without VPN-security.

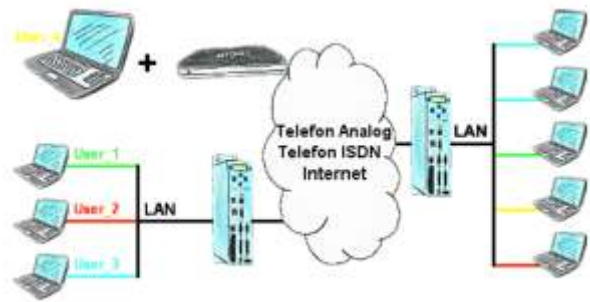
You have on the plant side only ISDN for telephone, but in your office there is only an analogue system? No problem, you have to install on the clients side the TP-II and activate there the analogue-emulation in the device. No, the modem signals will be send digitalized over ISDN and you can connect to it. So, you will be able to communicate though the telephone systems are different and your client isn't forced to install an analogue connection.

Router - Mode (access to the network without router)



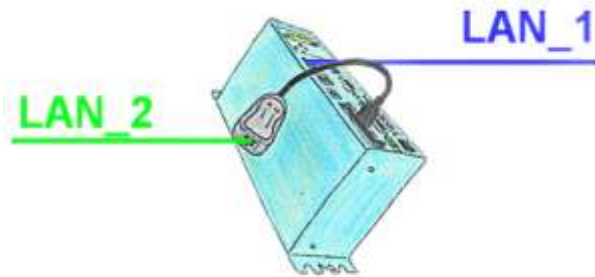
The Tele-Prof-II can also be used as a router for access from a PC via dial-up connection, so that a communication with the behind covered network results. Furthermore a network connection can be made with the TP-II <=> TP-II-line, but in doing so the IP-address-root must differ.

User dependant network access



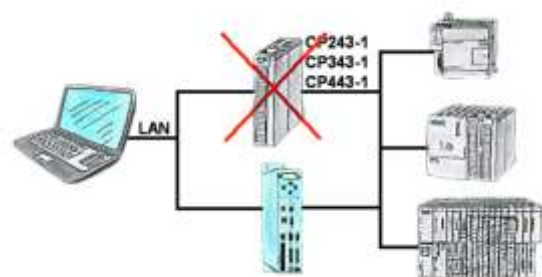
You have PLC/LAN-participants different supplier in your network and everybody should have access to this network? No problem, you give every supplier a VPN-username and password, define in the destination device a user-dependent network-access and after positiv login he only can communicate to the released ip-addresses.

Separate your machine-net from the office-net



You need a separation between the machine-net and the office-net? No problem, plug a PCMCIA-LAN-card in your Tele-Prof-II-device (only for version -H) and the separation is OK. You have access to both nets via remote maintenance.

S7-CP-alternate (without LAN-CP to the PLC)



Do you have a PLC without CP343-1 or CP443-1 and a TP-II as remote maintenance device? Then activate the CP-mode of the TP-II and your visualisation goes directly ONLINE via the LAN of the TP-II.

PLC coupling (data exchange between PLCs)



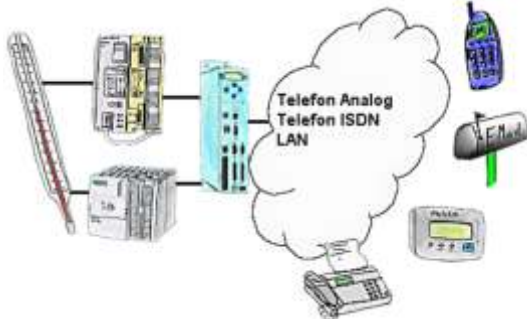
Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a "normal" telephone connection is sufficient because the devices cut the line after occured message.

Failure report transmission without any change in the PLC programm



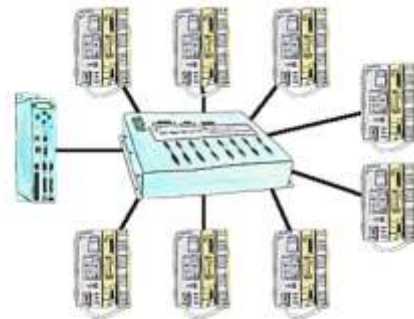
Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail. And this without an intervention of the PLC-program. Here the variables and actions are stored and processed in the TP-II.

Failure report transmission released by the PLC



Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail.

Remote maintenance of centralized PLC-devices



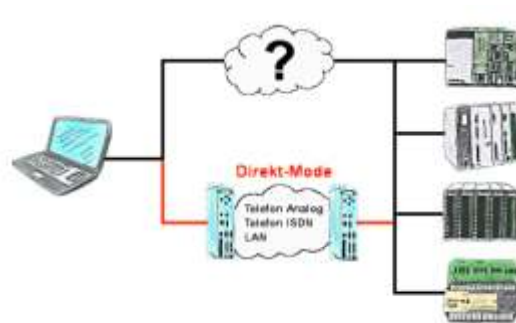
You have many PLC and you want to programm them central on one place? No problem, you have to connect them all to the KOR/MUX-Tele-Switch, connect it with the TP-II and after telephone connect you will be able with the PD-bus-selection of your Step5-software to go ONLINE. Of course the MOR/MUX-Tele-Switch is cascable, so you can connect up to 30 PLCs to the devices.

Sending ASCII-data to a PC



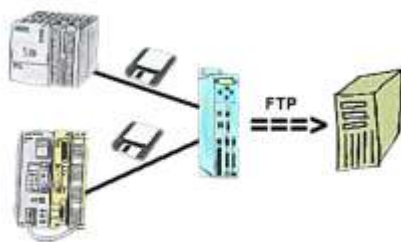
Your car park or control sends the configuration / capacity utilisation to a PC with a modem, so that the data can be used for further processing.

Direct-mode "extended serial interface"



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode, and on-site reproduced by the TP-II. The way back is identical. So in that case there's also a communication to the electronic devices available.

Data logger with FTP-interface



You need a data logger which tape-records the specified data of the PLC and you can collect the data via FTP on demand. No problem, TP-II with the option Datalogger is the solution for you.

article:		
Art. ID.	name	price
9372-OEM	TELE-PROFessional II worldwide use OEM - Version (all accessories optional) without PCMCIA-Slot for UMTS-/LAN-card	1188,- €

variants:		
Art. ID.	name	price
9372-OEM-H	TELE-PROFessional II worldwide use OEM - Version (all accessories optional) with PCMCIA-slot for UMTS-/LAN-Card	1238,- €
9372-FLAT	TELE-PROFessional II worldwide use "FLAT" flat version / OEM - Version (all accessories optional) without PCMCIA-slot for UMTS-/LAN-card	1188,- €
9372-FLAT-H	TELE-PROFessional II worldwide use "FLAT" flat version / OEM - Version (all accessories optional) with PCMCIA-slot for UMTS-/LAN-Card	1238,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	120	10,- €
9379.1	MPI/Profibus connecting cable 1m connects MPI-modem/TP-II with the S7-PLC	106	10,- €
9372-LANCARD	Network-card for TP-II Ethernet networkcard Cardbus PCMCIA 10/100		99,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9361-3	S5-connecting cable 3m for TELE-PROF, MINI-/PG-MUX-II	129	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI-/PG-MUX-II	129	43,- €

accessories:			
Art. ID.	name	page	price
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI/PG-MUX-II	129	46,- €
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI/PG-MUX-II	129	56,- €
9371-6	Servicebag for TP, TB + TP-II-FLAT	125	59,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9372	TELE-PROFessional II Starter-Kit completing 9372-OEM	117	162,- €
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-ISDN	Phone-cable ISDN RJ45 plug <=> RJ45 plug, assigned 1to1	119	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €
9372-UMTS-Ant	UMTS directional antenna external antenna for the UMTS-card		199,- €
9352.1	USB-cable plug/plug type A-A 3m USB 1.1 / 2.0 up to 480 MBit	121	10,- €

TELE-PROFessional (TP)

- Secured modem-protocol, no additional software needed
- High throughput
- No PLC-crash possible
- All online functions possible
- Compatible to SIMATIC-S7-200/300/400
- Compatible to all SIMATIC-S5-PLC's
- Supports operation on H1, L1, L2 regarding path selection
- Supports the operation KOR/MUX of Siemens, as well as PD-BUS
- Easy handling because of menu navigation and display in plain text
- Easy and quick configuration by menu item initial configuration
- Multi-stage password levels provide high data security
- Cost improvement because of call-back function
- PD-PD-coupling possible
- Integrated telephone directory
- Compatible to all TELE-Network-devices
- Integrated MUX as 2. PD-socket on Siemens
- Analogue modem for world wide use
- EMC-compatible circuit arrangement
- Other PLC-protocols with optional Tele-Manager reloadable
- Software-updates via telephone line transferable
- Incl. modem cable and power supply unit



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	expressive LCD-display
Handling/Configuration:	integrated keypad Tele-Manager
Interfaces:	to the PLC: TTY/20mA current loop (AG-TELE aktiv, PLC passiv) RS232: 9,6 KBd - 115,2 KBd / fully assigned
	to the PD/PC: TTY/20mA current loop (100 % mechanically and electr. compatible) RS232: 9,6 KBd - 115,2 KBd / with a 1 on1-cable to the PC
	others: 1 x parallel port, 1 x PCMCIA
	Integrated modem:
	33K6-analogue modem with BZT-approval
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	280 x 170 x 55 mm
Commercial data:	
EAN number:	4260363242172
HS-code:	85389099
Weight:	2.4000 kg

Remote maintenance / telecontrol of PLC-devices



Access to the connected PLC takes place by coupling via Analogue-, ISDN- (only with AB-adapter) and GSM-(only with external GSM-modem)-line.

PLC coupling (data exchange between PLCs)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a "normal" telephone connection is sufficient because the devices hangs up the line after occurred message.

PLC-coupling (data exchange between PLC-devices)



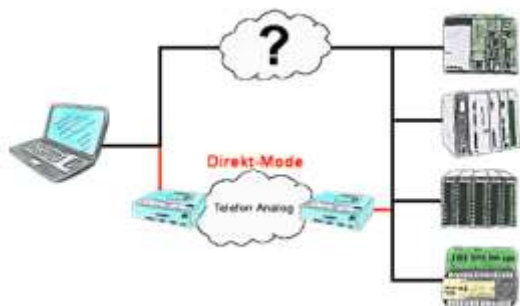
Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, to your mobile phone as SMS or to your pager.

Sending ASCII-data to a PC



Your car park or control sends the configuration/capacity utilisation to a PC with a modem, so that the data can be used for further processing.

Direct-mode „extended serial interface“



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode , and on-site reproduced by the TP/TB. The way back is identical. So in that case there's also a communication to the electronic devices available.

article:		
Art. ID.	name	price
9371	TELE-PROFessional worldwide PLC remote maintenance German version (complex adaptation)	1099,- €
9371-US	TELE-PROFessional worldwide PLC remote maintenanceUSA-version	1099,- €

options:		
Art. ID.	name	price
9370-11	Option ASCII-TELE ASCII-transfer of DB-contents from S5/7-PLC to a modem	251,- €
9370-3	Option FAX-TELE sending DB-contents from S5/7-PLC's to a fax machine	251,- €
9370-7	Option H1 with CP-cable programming of S5-PLC's with a CP via H1-bus with PD-path selection	251,- €
9370-6	Option L1 with CP-cable programming of S5-PLC's with a CP via L1-bus with PD-path selection	251,- €
9370-5	Option L2 with CP-cable programming of S5-PLC's with a CP via L2-bus with PD-path selection	251,- €
9370-2	Option PLC-TELE transfer of DB-contents between S5/7-PLC's	251,- €
9370.A	Option TP+TB AEG TELE-PROFessional for AEG A120,A250 PLC- or PD-TELE switchable	1273,- €
9370.AB	Option TP+TB Allen-Bradley TELE-PROFessional for Allen-Bradley PLC- or PD-TELE switchable	1273,- €
9370.B	Option TP+TB Bosch TELE-PROFessional for Bosch	1273,- €
9370.G	Option TP+TB GE-Fanuc TELE-PROFessional for GE-Fanuc	1273,- €
9370.KM	Option TP+TB Klöckner-Moeller TELE-PROFessional for Klöckner-Moeller	1273,- €
9370.M	Option TP+TB Mitsubishi TELE-PROFessional for Mitsubishi	1273,- €
9370.P	Option TP+TB Pilz TELE-PROFessional for Pilz PSS	1273,- €
9370.T	Option TP+TB Telemecanique TELE-PROFessional for Telemecanique	1273,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9370-ISDN	ISDN-adaptor for analogue terminals full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	114	251,- €
9379-ANT	Magnetic base antenna for TP, TS + MPI-Modem	126	24,- €
9361-3	S5-connecting cable 3m for TELE-PROF, MINI/PG-MUX-II	129	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI/PG-MUX-II	129	43,- €
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI/PG-MUX-II	129	46,- €
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI/PG-MUX-II	129	56,- €
9370-COM	Serial PCMCIA-adaptor for TP + TB	117	205,- €
9371-6	Servicebag for TP, TB + TP-II-FLAT	125	59,- €
9370-SLM	Leased-line modem for TP only usable as pairs	117	128,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting		20,- €
9370-TM	TELE-Manager for Windows 3.x configuration / Update from PC (Windows Software)	21	404,- €
9370-TM-2	TELE-Manager TWIN-option parallel loading of 2 SPS-types (firmware-data sets) in a TP-device	21	251,- €

accessories:			
Art. ID.	name	page	price
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-ISDN	Phone-cable ISDN RJ45 plug <=> RJ45 plug, assigned 1to1	119	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €



TELE-BOOK (TB)

- Secured modem-protocol, no additional software needed
- High throughput
- All online functions possible
- Easy handling because of menu navigation and display in plain text
- Easy and quick configuration by menu item initial configuration
- Multi-stage password levels provide high data security
- Cost improvement because of call-back function
- Integrated telephone directory
- Compatible to all TELE-Network-devices
- EMC-compatible circuit arrangement
- Other PLC-protocols with optional Tele-Manager reloadable
- Software-updates via telephone line transferable
- Incl. power supply unit

Technical Specifications:

Supply voltage:	24V/DC (12 - 36V)
Power consumption:	3 watt
Display:	expressive LCD-display
Handling/Configuration:	integrated keypad Tele-Manager
Interfaces:	to the PLC: RS232: 9,6 KBd - 115,2 KBd / fully assigned
	to the PD/PC: TTY/20mA current loop (100 % mechanically and electr. compatible)
	RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC
	others: 1 x PCMCIA
Integrated modem:	-
Operating temperature:	5 - 55°C
Case:	powder coated metal table case
Dimensions:	233 x 162 x 39 mm
Commercial data:	
EAN number:	4260363240338
HS-code:	85389099

Use in the car with a 12V supply only



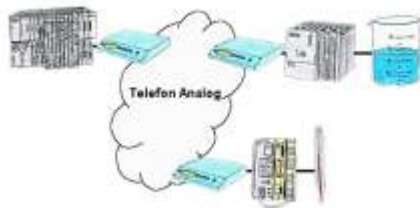
Remote maintenance / telecontrol of PLC-devices



Your're on road with your car and your employee reports a failure? What next? Approach the next parking place and try to get a telephone line to solve the problem? Or solve the problem in your head? Hit the next parking place and start your Tele-Book which is plugged on your car's cigarette lighter, and build-up a connection to your installation. With the notebook you will solve the problem within a short time.

Access to the connected PLC takes place by coupling via Analogue-, ISDN- (only with AB-adapter) and GSM-(only with external GSM-modem)-line.

PLC-coupling (data exchange between PLC-devices)



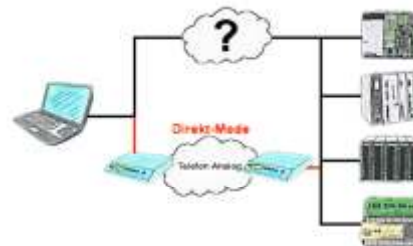
Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a "normal" telephone connection is sufficient because the devices hangs up the line after occurred message.

Failure report transmission released by the PLC



Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, to your mobile phone as SMS or to your pager.

Direct-mode „extended serial interface“



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode , and on-site reproduced by the TP/TB. The way back is identical. So in that case there's also a communication to the electronic devices available.

Sending ASCII-data to a PC



Your car park or control sends the configuration/capacity utilisation to a PC with a modem, so that the data can be used for further processing.

article:		
Art. ID.	name	price
9380	TELE-BOOK PLC remote maintenance as PLC-or PG-TELE switchable	1099,- €

options:		
Art. ID.	name	price
9370-11	Option ASCII-TELE ASCII-transfer of DB-contents from S5/7-PLC to a modem	251,- €
9370-3	Option FAX-TELE sending DB-contents from S5/7-PLC's to a fax machine	251,- €
9370-7	Option H1 with CP-cable programming of S5-PLC's with a CP via H1-bus with PD-path selection	251,- €
9370-6	Option L1 with CP-cable programming of S5-PLC's with a CP via L1-bus with PD-path selection	251,- €
9370-5	Option L2 with CP-cable programming of S5-PLC's with a CP via L2-bus with PD-path selection	251,- €
9370-2	Option PLC-TELE transfer of DB-contents between S5/7-PLC's	251,- €
9370.A	Option TP+TB AEG TELE-PROFessional for AEG A120,A250 PLC- or PD-TELE switchable	1273,- €
9370.AB	Option TP+TB Allen-Bradley TELE-PROFessional for Allen-Bradley PLC- or PD-TELE switchable	1273,- €
9370.B	Option TP+TB Bosch TELE-PROFessional for Bosch	1273,- €
9370.G	Option TP+TB GE-Fanuc TELE-PROFessional for GE-Fanuc	1273,- €
9370.KM	Option TP+TB Klöckner-Moeller TELE-PROFessional for Klöckner-Moeller	1273,- €
9370.M	Option TP+TB Mitsubishi TELE-PROFessional for Mitsubishi	1273,- €
9370.P	Option TP+TB Pilz TELE-PROFessional for Pilz PSS	1273,- €
9370.T	Option TP+TB Telemecanique TELE-PROFessional for Telemecanique	1273,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9381.KABEL	Analogue cable for TAE-modem PCMCIA PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	114	51,- €
9370-ISDN	ISDN-adapter for analogue terminals full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	114	251,- €
9370-COM	Serial PCMCIA-adapter for TP + TB	117	205,- €
9371-6	Servicebag for TP, TB + TP-II-FLAT	125	59,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	104	3,- €
9381	TAE-modemPCMCIA-card for TELE-BOOK pcmcia-card inclusive telefon-lead and TAE-adapter	116	205,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9380-9S	Connecting cable TELE-Book on Slot-PLC from Siemens		51,- €

TELE-Manager

- Reading out and updating of TELE-Network devices' firmware comfortable from PC
- Saving and reloading of configuration
- Administration of several TELE-Network devices
- With the TWIN option 2 PLC types (firmware-files) can be loaded parallel into a TP device

Commercial data:

EAN number:	4260363242196
HS-code:	85234099



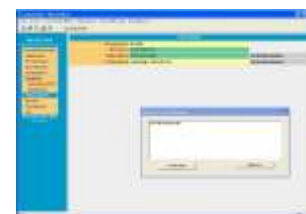
article:		
Art. ID.	name	price
9370-TM	TELE-Manager for Windows 3.x configuration / Update from PC (Windows Software)	404,- €
9370-TM-2	TELE-Manager TWIN-option parallel loading of 2 SPS-types (firmware-data sets) in a TP-device	251,- €

Win-TELE-PROF

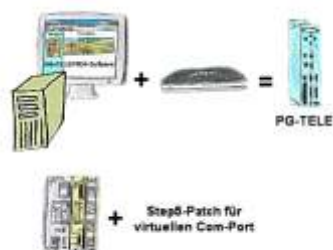
- Software-TELE-PROFessional for all devices in the TELE-Network
- Comfortable telephone book
- Intern/external analogue and ISDN-standard modems useable
- No external TELE-device on PC-side necessary
- Ideal for on the way use
- Also with original Siemens STEP5/7-programming software via virtual COM-Port
- Supports TCP/IP-Router of the TELE-PROFessional II
- Remote configuration of TELE-Network devices
- Win NT/2000/XP supported
- A 56k Modem is necessary on PC-side

Commercial data:

EAN number:	4260363243407
HS-code:	85234999



WinTELEPROF-software = software-PG-TELE



You're using the devices of the Tele-Network-family and don't want to have a device standing on the table? No problem. Install the WinTELEPROF-software on your PC and after link connection access to your Step5/7-programming software (also Siemens) via a virtual Com-Port.

At Step5 the Step5-software is going to be patched, then working with the virtual Com-Port will be also possible.

article:		
Art. ID.	name	price
9371-PC-S5	Win-TELE-PROF S5 Ground package TP single license	511,- €
9371-PC-S5-F	Win-TELE-PROF S5 Ground package TP	1533,- €
9371-PC-S5-S	Win-TELE-PROF S5 Ground package TP	168,- €
9372-PC-S5	Win-TELE-PROF S5 Ground package TP-II	511,- €
9372-PC-S5-F	Win-TELE-PROF S5 Ground package TP-II	1533,- €
9372-PC-S5-S	Win-TELE-PROF S5 Ground package TP-II	168,- €
9371-PC-S5-X	Win-TELE-PROF S5 Add-on package TP	357,- €
9371-PC-S5-F-X	Win-TELE-PROF S5 Add-on package TP	1088,- €
9371-PC-S5-X-S	Win-TELE-PROF S5 Add-on package TP	119,- €
9372-PC-S5-X	Win-TELE-PROF S5 Add-on package TP-II	357,- €
9372-PC-S5-F-X	Win-TELE-PROF S5 Add-on package TP-II	1088,- €
9372-PC-S5-X-S	Win-TELE-PROF S5 Add-on package TP-II	119,- €
9371-PC	Win-TELE-PROF S7 Ground package TP	511,- €
9371-PC-F	Win-TELE-PROF S7 Ground package TP	1533,- €
9371-PC-S	Win-TELE-PROF S7 Ground package TP	168,- €
9372-PC	Win-TELE-PROF S7 Ground package TP-II	511,- €
9372-PC-F	Win-TELE-PROF S7 Ground package TP-II	2044,- €
9372-PC-S	Win-TELE-PROF S7 Ground package TP-II	168,- €
9371-PC-X	Win-TELE-PROF S7 Add-on package TP	357,- €
9371-PC-F-X	Win-TELE-PROF S7 Add-on package TP	1088,- €
9371-PC-X-S	Win-TELE-PROF S7 Add-on package TP	119,- €
9372-PC-X	Win-TELE-PROF S7 Add-on package TP-II	357,- €
9372-PC-F-X	Win-TELE-PROF S7 Add-on package TP-II	1088,- €
9372-PC-X-S	Win-TELE-PROF S7 Add-on package TP-II	119,- €

TELEService

- Directly pluggable on the S7-300-profile rack
- Power supply from the S7-PLC or external
- SMS and e-mail sending directly from S7-300/400
- RS232-interface for configuration or on-site use as serial PC-Adapter
- USB-interface for configuration or on-site use as USB-PC-Adapter
- Online firmware update and diagnosis over telephone-connection
- All TELESERVICE-devices inclusive S7-cable art.nr: 9377.1 (1m)
- All TELESERVICE-devices inclusive specific telephone lead respectively GSM-antenna



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	detailed status indication via 10 LEDs
Handling/Configuration:	Kabelmanager-Software
Interfaces:	to the PLC: PPV/MPI/Profibus interface: 9,6 Kbd - 12 MBd
	to the PD/PC: RS232: 9,6 Kbd - 115,2 Kbd / with a 1on1-cable to the PC
	USB 1.1 jack type B
	others: -
Integrated modem:	56K-analogue modem / ISDN-modem / GSM-modem
Operating temperature:	5 - 55°C
Case:	single-size standard S7-300-case
Dimensions:	40 x 125 x 115 mm
Commercial data:	
EAN number:	4260363243742
HS-code:	85389099
Weight:	0.4500 kg



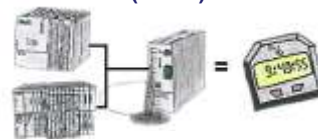
The access to the connected PLC with the Siemens TS-software or PG-2000 including TS-option results of coupling via Analogue-, ISDN- (only with AB-adapter) as well as GSM-line.

With the TeleService-device you can connect serial or by USB-cable to your PC/laptop and then communicate directly with the control without a PC-adapter or other S7-programming cables.

The USB-cable is a standard-cable just as the one you use at your printer.



Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail.



You need an exact time for your S7-plc? No problem, the TeleService-GSM fetches the current time via GPRS from a time-server and advises it to the S7-plc. How often and whenever the time shall be updated can be parameterised in the device.

article:		
Art. ID.	name	price
9377-ANALOG-OP	TELESERVICE ANALOGUE up to 12MBaud MPI+DP without DP V0/V1/V2	469,- €
9377-GSM-OP	TELESERVICE GSM up to 12MBaud MPI+DP without DP V0/V1/V2	619,- €
9377-ISDN-OP	TELESERVICE ISDN up to 12MBaud MPI+DP without DP V0/V1/V2	544,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9379-ANT	Magnetic base antenna for TP, TS + MPI-Modem	126	24,- €
9377.1	MPI/Profibus connecting cable 1m for Tele-Service	106	10,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-ISDN	Phone-cable ISDN RJ45 plug <=> RJ45 plug, assigned 1to1	119	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €
9352.2	USB-cable plug/plug type A-B 3m USB 1.1 / 2.0 up to 480 MBit	121	10,- €

MPI / PPI - Profibusmodem

- Standard modem-protocol, the Siemens TS-software is needed
- Analogue modem for world wide use
- Data transmission via radio (GSM)
- Screwable antenna/prolongable (GSM)
- For Siemens-S7-Teleservice
- Incl. modem-cable and S7-cable (1m)
- GSM-Modem incl. magnetic base antenna and S7-cable (1m)



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	expressive LCD-display 4 status-LEDs
Handling/Configuration:	integrated keypad



Interfaces:**to the PLC:**

PPV/MPI/Profibus interface: 9,6 KBd - 12 MBd

to the PD/PC:

RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC

others:

-

Integrated modem:

33K6-analogue modem

GSM-modem

Operating temperature:

5 - 55°C

Case:

powder coated metal case with mounting flange

Dimensions:

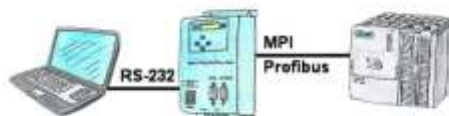
165 x 90 x 50 mm

Commercial data:**EAN number:**

4260363240031

HS-code:

85389099

Remote maintenance / telecontrol of PLC**Use on-site without PC-adapter?**

The access to the connected PLC with the Siemens TS-software or PG-2000 including TS-option results of coupling via Analogue-, ISDN- (only with AB-adapter) as well as GSM-line.

With the MPI/PPV/Profibus-modem you can connect serial to your PC/laptop and then communicate directly with the PLC without a PC-adapter or other S7-programming cables.

article:

Art. ID.	name	price
9379-OP	MPI/PPV-Modem maximum baud rate MPI- and Profibus up to 12Mbaud	469,- €
9379-G-OP	MPI/PPV-Modem GSM maximum baud rate MPI- and Profibus up to 12Mbaud	619,- €

accessories:

Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9370-ISDN	ISDN-adapter for analogue terminals full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	114	251,- €
9379-ANT	Magnetic base antenna for TP, TS + MPI-Modem	126	24,- €
9379.1	MPI/Profibus connecting cable 1m connects MPI-modem/TP-II with the S7-PLC	106	10,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €

EVENT-MODEM

Basic model:

- Digital in-/outputs, each one configurable as opener or closer
- 8 report targets per input
- Fax, e-mail, SMS, Pager and Voice (fixed report texts)
- Inclusive modem-cable



Analogue:

Event-Modem A100 ECO

- analogue modem V92
- 4 digital inputs, 4 digital outputs

Event-Modem A200

- analogue modem V92
- 8 digital in-/outputs
- 2 analogue inputs / 2 analogue outputs
- voice response of the digital- / analogue values
- data logger funktion
- remote maintenance/remote switching via modem and web-interface

Event-Modem A242

composed of Event-Modem A200 and X332

- 8 + 32 digital in-/outputs
- 2 analogue inputs

GSM:

Event-Modem G100 ECO

- GSM-Dualband-Modem
- 4 digital inputs, 4 digital outputs

Event-Modem G200

- GSM-Dualband-Modem
- 8 digital in-/outputs
- 2 analogue inputs / 2 analogue outputs
- voice response of the digital- / analogue values
- data logger funktion
- remote maintenance/remote switching via modem and web-interface

Event-Modem G242

composed of Event-Modem G200 and X332

- 8 + 32 digital in-/outputs
- 2 analogue inputs

Technical Specifications:

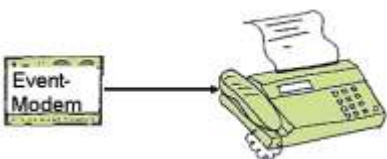
Supply voltage:	24V/DC +/- 20%
Power consumption:	4 watt
Display:	Web-Browser
Handling/Configuration:	4 DIP-Switch for operating states
Interfaces:	<u>to the PLC:</u> digital in-/outputs analogue in-/outputs <u>to the PD/PC:</u> RS232 RS485 <u>others:</u> -
Integrated modem:	analogue modem V92 / GSM-modem
Operating temperature:	-20 - +60°C
Case:	plastic case for DIN-rail mounting
Dimensions:	110 x 125 x 60 mm
Commercial data:	
EAN number:	4260363243551
HS-code:	85176200

Direct Voice - speech output with EventModem



The receiver will be called by conventional telephone network or by mobile phone with a direct voice message. If a connection comes off the message will be transmitted.

Direct Fax



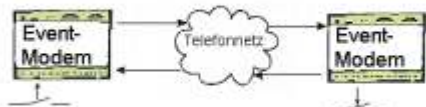
By direct dialling up the fax machine a message is carried out to a fax-receiver. If a connection comes off the message will be transmitted.

Remote Maintenance via keyboard and voice



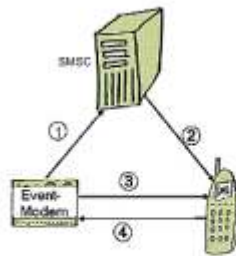
The EventModem remote station will be called directly by conventional Telephone network or by. If a connection comes off, digital In- and Outputs for teleswitching will be transmitted. Each device can both transmit state of things and accordingly receive switch signals.

Remote switching with Eventmodem to Eventmodem



The EventModem will be called by conventional Telephone network or by mobile phone. With a direct voice message and DTMF-tone dialling the corresponding output will be set-up. If a switching operation has come off a speech output will confirm it.

Message via SMS (SMSC)



1. Senden einer SMS
2. Weiterleiten auf Handy
3. Aktiver "Weckruf" und Aufforderung zur Quittierung
4. Quittierung

A SMS to a mobile phone is basically send by SMSC. Within the GSM-network it takes place via on-net SMSC. Thereby it's unimportant in which mobile network the receiver is.

The message is activated by:

- digital contacts (relays, motion detector...)
- serial interface (PLC, PC, Microcontroller ...) bitserial (PLC)

The detection system transmits the SMS to the mobile network operator. The mobile network operator provides the SMS to the mobile phone. Optionally the detection system dials the mobile phone to „wake up“ the receiver or to initiate the confirmation handling.

To switch a EventModem-output via SMS



SMS-Versenden.
PASS=12345 DO1=1,15

```

PASS=12345 DO1=1,15
| | | | | 15 Sekunden Schaltzeit (0 bedeutet dauernd an)
| | | | | 1 = EIN, 2 = AUS (bei AUS wird keine Schaltzeit beachtet)
| | | | | DO1 Schlüsselwort für Digitalausgang (DO1 bis DO8 möglich)
| | | | | Passwort aus dem Menüpunkt Geräteeingang
| | | | | Schlüsselwort für Passwort
  
```

Switching an output via SMS is an integrated function of the EventModem. Herewith the switching operation will be secure and comprehensible from afar.

Data logging

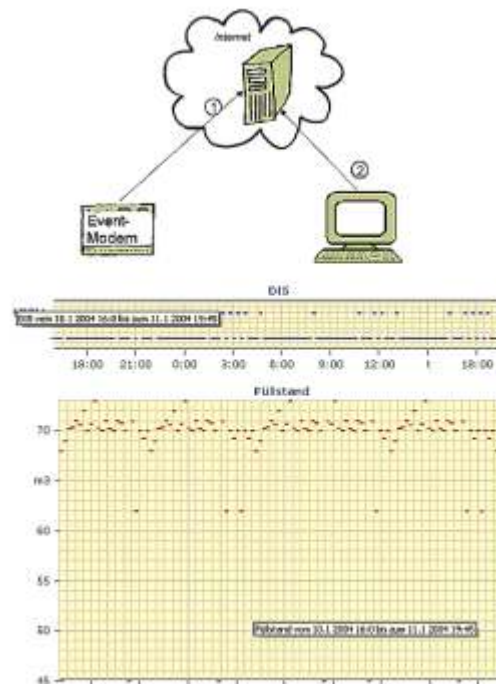


Abb. zeigen Funktion des Datenloggers, realisierbar mit EventModem Serie 200

Cyclic data logging or data logging on occasion is realisable. The log data will be transmitted e.g. once a day via e-mail.

Special data logger functions can be implemented on request and are not part of the basis functions.

article:		
Art. ID.	name	price
15300	Event-Modem A100 ECO Analogue modem with 4 digital inputs, 4 digital outputs	495,- €
15301	Event-Modem A200 Analogue modem with 8 digital in-/outputs (selectable) and 2 analogue inputs / 2 analogue outputs	715,- €
15304	Event-Modem A242 analogue modem with 8 dig. I/O (selectable) + 32 digital inputs + 2 analouge inputs	995,- €
15302	Event-Modem G100ECO GSM-dual band-modem with 4 digital inputs, 4 digital outputs	890,- €
15303	Event-Modem G200 GSM-dual band-modem with 8 digital in-/outputs (selectable) and 2 analogue inputs / 2 analogue outputs	995,- €
15305	Event-Modem G242 GSM modem with 8 dig. I/O (selectable) + 32 digital inputs + 2 analouge inputs	1275,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9379-ANT	Magnetic base antenna for TP, TS + MPI-Modem	126	24,- €
9370-TAE	TAE junction box analogue telephone box (NFN) for on-wall mounting	118	20,- €
9370-SET	Phone-connector-set 16parts worldwide use	118	230,- €
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	118	10,- €
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	118	23,- €
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	118	23,- €
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	119	23,- €
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	119	23,- €
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	119	23,- €
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	119	23,- €
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	120	23,- €

ALF

- For S7-1200, S5-LAN++, S7-LAN and Ethernet-CPs usable
- Connecting a network subscriber (also over switch) as Client to an Access Point
- Can be also driven as an Access-Point
- No configuration of AdHoc-mode on the notebook needed
- Simply configuration with included english web-server
- Auto-negotiation of the RJ45-Ethernet jack
- Integrated DHCP-server
- Provides passive PoE (12V DC)
- High data-transfer; providing data rates of up to 150Mbps; is compatible with legacy 802.11b/g equipment
- Integrated firewall with SPI to protect the internal host from hacker attacks
- Wireless security is comprehensive and includes WPA/WPA2 PSK
- Provides helpful features like Rich WDS, Dual SSIDs, Static Routing, QoS and more
- Suitable for wall-mounting
- Power supply 24V DC over spring clip



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,2 watt
Display:	status-LEDs
Handling/Configuration:	with integrated webserver
Interfaces:	to antenna: RP-SMA-female connector (reverse polarity) with 5 dBi
	to the PLC: 10/100BaseTX RJ45-ethernetplug
	to the PD/PC: WLAN connection (802.11 b/g/n)
Security	WEP 64/128bit
	WPA (TKIP with IEEE 802.1x)
	WPA2 (AES with IEEE 802.1x)
	WPA Mixed
Operating temperature:	-20 - 60°C
Case:	plastic case
Dimensions:	93 x 70 x 26 mm
Commercial data:	
EAN number:	4260363240550
HS-code:	85176200
Weight:	0.2500 kg

24V-supply from the PLC



You want to install your ALF directly in the switch-board and would like to use the 24V of the existing S7-PLC? No problem, connect the open ended side of the Kabelbrücke to the 24V port on your ALF and the bus-side on the MPI- or Profibus of this PLC. Even the ALF is supplied above this PLC.

Operation as a WLAN-client



You are on site your plant and should move round the machine and simultaneously control or monitor. WLAN is reachable, but your PC is not able to provide WLAN. No problem, you parametrize ALF as a client and connect him to the PC and join the reachable WLAN and you are online on the PLC.

No direct connected LAN-client required



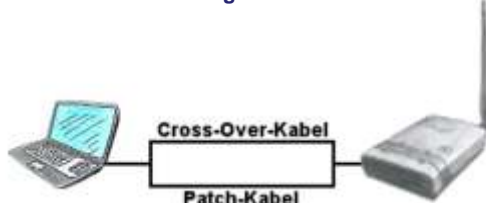
You have some LAN-clients and want to communicate via WLAN with them? No problem, you connect ALF to a switch and you are able to communicate with all this clients. You don't need a direct connect client.

Integrated dhcp-server



You use your PC in your company network with DHCP, so you don't have to care the everlasting setting of the ip-address. No problem, ALF also can be configured as a DHCP-server and assigns you accessing to the device via LAN or WLAN an ip-address from a predefined address range.

Autonegotiation on RJ-45



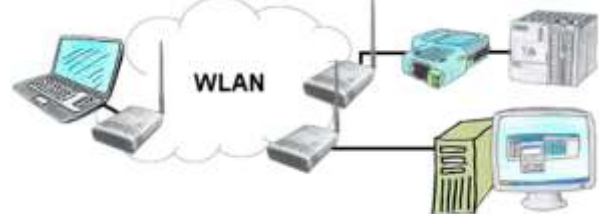
You need ALF to connect to a reachable WLAN, but only have a patch-cable? No problem, ALF provides "autonegotiation" and this means that he recognises a connected cable (patch-cable or cross-over-cable) and surround the pinning according to the cable, so a communication is possible.

Operation as an access point



You are on site your plant and should move round the machine and simultaneously control or monitor. No problem, you parametrize ALF as an access-point and connect your S7-LAN or other network-client to him, connect your PC with him and you are online on the PLC.

Operation as bridge



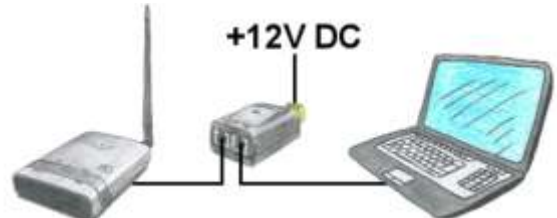
You have two or more clients which should communicate together without LAN-cable-connection? No problem, you connect a "Access-Point" configured ALF to this device and to the other device a "Client" configured ALF. Then connect the "Client" with the "Access-Point" and the device are able to communicate together.

Easiest configuration by included webserver



To configure ALF you don't need additional driver or special cables, you connect your PC via LAN or WLAN with ALF and over the integrated webserver you can configure the needed function.

Passive PoE



You don't want to power ALF with 24V DC because you have in your network PoE "Power over Ethernet" in use. No problem, ALS provides passive PoE, this means he can be powered with the not used cables of the lan-cable with 12V DC. You don't need additional the 24V DC.

Attention: Don't connect a PoE-cable to a lan-client which don't provides PoE! The device could be damaged!

Integrated firewall



You use ALF as a WLAN-router to connect your PC with the internet. No Problem, this Sie nutzen ALF als WLAN-Router um Ihren PC ins Internet zu bringen. Kein Problem, ALF masters this task without problems. Its built-in firewall ensures that no hacker from outside changes your configuration or moves in your network.

article:			
Art. ID.	name	price	
9352-ALF	ALF Industrial WLAN-Router Rev. A	249,- €	
option:			
Art. ID.	name	price	
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	49,- €	
accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9352-ALF-BOOSTER	500mW-booster for ALF Pen-Booster wih antenna to increase the range. Note: According to the existing german regulations, a wireless device may not exceed the radiated power (EIRP) of 20 dBm (100mW). Please note the telecommunication law in your country.	127	109,- €
9352-ALF-KABEL	Connection-cable for beam/sector antenna cable length: 3m	125	49,- €
9350-9-CHP-24V-OUT	CheapConn Busconnector with 24V-cable-output Comfortable power supply for ALF, TONI and WLAN-Klemme	129	69,- €
9352-ALF-ANT	Magnetic base antenna for ALF cable length: 1,5m	126	78,- €
9636-TCPIP:1M	Patch-cable 1m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1		14,- €
9636-TCPIP	Patch-cable 3m, Cat5+ , shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9352-ALF-RICHTANTENNE	Beam antenna for ALF Beam antenna with 20dBi power gain for classic radio link connection cable optional	127	119,- €
9352-ALF-SEKTORANTENNE	Sector antenna for ALF Sector antenna with 17dBi power gain and bundled radiation. Connection cable optional	127	179,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €

WLAN-SETs

- Practical and stable plastic case with two airtight closures
- Includes all what is needed for S7-communication
- Connects comfortable PC with PLC via LAN or WLAN
- Also for S7-1200 usable
- Scope of delivery:
 - ALF-WLAN-SET: S7-LAN module, ALF, Cross-Over-cable and patch-cable 1m
 - ALF-WLAN-SET-S5: S5-LAN++-module, ALF, Cross-Over-cable and patch-cable 1m
 - ALF-WLAN-SET-S5/7: S5-LAN++-module, S7-LAN-module, ALF, Cross-Over-cable and patch-cable 1m



Commercial data:

EAN number: 4260363241045

Weight: 0.5000 kg



Universally to the S7-PLC-Control



You have to build up a connection to your S7-PLC and preferentially over LAN/WLAN? No problem, you drive to your plant and take with the WLAN-SET. The set includes all you need to couple. You plug the S5-LAN++ or S7-LAN on your S5/7-PLC and connect it with the ALF of the configured S7-WLAN-Bridge and the connection to your notebook (for S7-WLAN-Bridge in AdHoc-mode) will be OK. Of course, you can also use an WLAN-router, if there would be one existant. Or you connect the S5-LAN++ or S7-LAN with the delivered Cross-Over-cable direct with the PC and you will be also online on the PLC. No matter which way you ever will use, with the WLAN-SETs you will be prepared for everything.

article:			
Art. ID.	name	price	
9352-ALF-WLAN-SET	ALF-WLAN-SET for S7-PLC Service-case for coupling to a S7-PLC over WLAN	599,- €	
variant:			
Art. ID.	name	price	
9352-ALF-WLAN-SET-S5	ALF-WLAN-SET for S5-PLC Service-case for coupling to a S5-PLC over WLAN	599,- €	
9352-ALF-WLAN-SET-S5/7	ALF-WLAN-SET for S5/7-PLC Service-case for coupling to a S5/7-PLC over WLAN	949,- €	
accessories:			
Art. ID.	name	page	price
9352-ALF-BOOSTER	500mW-booster for ALF Pen-Booster wih antenna to increase the range. Note: According to the existing german regulations, a wireless device may not exceed the radiated power (EIRP) of 20 dBm (100mW). Please note the telecommunication law in your country.	127	109,- €
9350-9-CHP-24V-OUT	CheapConn Busconnector with 24V-cable-output Comfortable power supply for ALF, TONI and WLAN-Klemme	130	69,- €
9352-ALF-ANT	Magnetic base antenna for ALF cable length: 1,5m	126	78,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €

TONI

- For S7-1200, S5-LAN++, S7-LAN and Ethernet-CPs usable
- Connecting a network subscriber (also over switch) as Client to an Access Point
- Can be also driven as an Access-Point
- Coupling to internet (GPRS, Edge, HSPA or HSPA+) possible
- No configuration of AdHoc-mode on the notebook needed
- Simply configuration of Toni with included English web-server
- Auto-negotiation of the RJ45-Ethernet jack
- Integrated DHCP-server
- Integrated 3-fach-switch
- High data-transfer; providing data rates of up to 150Mbps; is compatible with legacy 802.11b/g equipment
- Integrated firewall with SPI to protect the internal host from hacker attacks
- Wireless security is comprehensive and includes WPA/WPA2 PSK
- Provides helpful features like Rich WDS, Dual SSIDs, Static Routing, QoS and more
- Power supply 24V DC over spring clip



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	7 watt
Display:	status-LEDs
Handling/Configuration:	with integrated webserver
Interfaces:	3G: SMA-female connector
	Wifi: RP-SMA-female connector (reverse polarity)
	Ethernet: 3x 10/100BaseTX RJ45-ethernetplug
	WLAN: connection (802.11 b/g/n)
Security	WEP 64/128bit
	WPA (TKIP with IEEE 802.1x)
	WPA2 (AES with IEEE 802.1x)
	WPA Mixed
Operating temperature:	0 - 50°C
Case:	metal case
Dimensions:	100 x 85 x 36 mm
Commercial data:	
EAN number:	4260363241137
HS-code:	85176200
Weight:	0.1000 kg

article:			
Art. ID.	name	page	price
9352-TONI	Toni Industrial HSPA+ Router		449,- €
accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9352-TONI-ANT	Magnetic base antenna-set for Toni for WiFi and 3G-connectors cable length: 2m	127	98,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €

TONI-SETs

- Practical and stable plastic case with two airtight closures
- Includes all what is needed for S7-communication
- Connects comfortable PC with PLC via LAN or UMTS
- Also for S7-1200 usable
- Scope of delivery:
 - TONI-SET: S7-LAN module, TONI, Cross-Over-cable and patch-cable 1m
 - TONI-SET-S5: S5-LAN++-module, TONI, Cross-Over-cable and patch-cable 1m
 - TONI-SET-S5/7: S5-LAN++-module, S7-LAN-module, TONI, Cross-Over-cable and patch-cable 1m



Commercial data:

EAN number:

4260363244060

article:			
Art. ID.	name	page	price
9352-TONI-SET	TONI-case-set for S7-PLC Service-case for coupling to a S7-PLC		799,- €

variant:			
Art. ID.	name	page	price
9352-TONI-SET-S5	TONI-case-set for S5-PLC Service-case for coupling to a S5-PLC		799,- €
9352-TONI-SET-S5/7	TONI-case-set for S5/7-PLC Service-case for coupling to a S5/7-PLC		1149,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9350-9-CHP-24V-OUT	CheapConn Busconnector with 24V-cable-output Comfortable power supply for ALF, TONI and WLAN-Klemme	130	69,- €
9352-TONI-ANT	Magnetic base antenna-set for Toni for WiFi and 3G-connectors cable length: 2m	126	98,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €

WLAN-terminal

- Suitable for DIN-rail EN 60715 TH35 and wall-mounting
- For S7-1200, S5-LAN++, S7-LAN and Ethernet-CPs usable
- Connecting a direct connected network subscriber (not over switch) via WLAN to an Access Point
- Ad-hoc capable for direct programming with the laptop
- Auto-negotiation of the RJ45-Ethernet jack
- Power supply 24V DC over spring clip; while configuration from USB of the connected PC
- Spring clips for conductors with max. 2.5 mm² and eyelets, terminals and tabs
- Simply parameterizing via USB, driver for Win XP available
- CE / EMC compliant design
- Used plastic complies UL 94 V-0



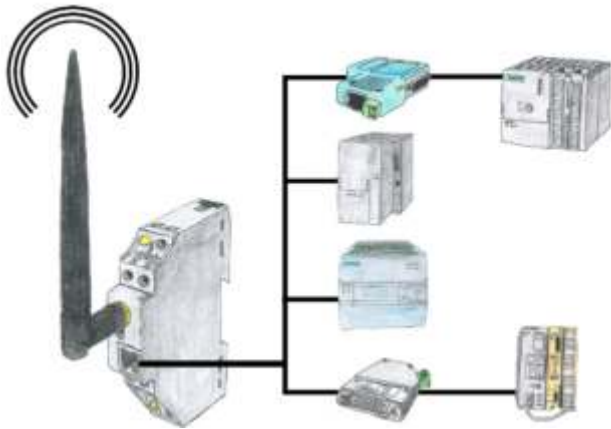
Technical Specifications:

Supply voltage:	24V/DC +/- 20% 5V/DC USB
Power consumption:	1,2 watt
Display:	2 status-LEDs
Handling/Configuration:	S7BridgeConfig-software
Interfaces:	to the PLC: 10/100BaseTX RJ45-ethernetplug to the PD/PC: WLAN connection (802.11 b/g) Mini-USB-B-jack (for Configuration)
Operating temperature:	5 - 55°C
Case:	plastic case UL 94 V-0
Dimensions:	90 x 59 x 18 mm

Commercial data:

EAN number:	4260363241557
HS-code:	85444290
Weight:	0.1000 kg

Universal transfer of LAN-products into WLAN



You have a variety of LAN products and would like to communicate to them via WLAN? No problem, with the WLAN-Klemme you will be able to contact all these products.

article:		
Art. ID.	name	price
9352-WLAN-KLEMMME	WLAN-terminal connection of a network client via WLAN to an Access-Point or in AdHoc-mode USB-drivers for parameterization only for Win XP!	249,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9350-9-CHP-24V-OUT	CheapConn Busconnector with 24V-cable-output Comfortable power supply for ALF, TONI and WLAN-Klemme	130	69,- €
9352-WLAN-ANT	Magnetic base antenna for S7-WLAN-Bridge, WLAN-Klemme cable length: 3m	126	78,- €
9636-TCPIP02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	121	14,- €

S7 - Interface

With each interface of your PC to the S7-PLC

- multifunctional, several functions in one product
- well-priced alternative to high-priced original products
- easy handling and therefore quick operation



application table:

PPI-Bus

PPI 9.6 KBit/s - 19.2 KBit/s

Multimaster 9.6 KBit/s - 187.5 KBit/s

MPI-Bus

19.2 KBit/s

187.5 KBit/s

1.5 MBit/s

Profibus

9.6 KBit/s

19.2 KBit/s

45.45 KBit/s

93.75 KBit/s

187.5 KBit/s

500 KBit/s

1.5 MBit/s

3.0 MBit/s

6.0 MBit/s

12.0 MBit/s

Profibus-profile

DP

standard

universal(DP/FMS)

RS 232

9.6 KBit/s

19.2 KBit/s

38.4 KBit/s

57.6 KBit/s

115.2 KBit/s

USB

USB 1.1 (6)

LAN

10/100BaseTx

TeleService operation

with S7-300/400

baud rates at TS-operation directly at the PC

9.6 KBit/s

19.2 KBit/s

38.4 KBit/s

57.6 KBit/s

baud rates at TS-operation directly at the PC

9.6 KBit/s

19.2 KBit/s

38.4 KBit/s

57.6 KBit/s

115.2 KBit/s

	MPI/PPI	MPI - II	MPI - USB	MPI - LAN	S7 - USB	S7 - LAN
PPI 9.6 KBit/s - 19.2 KBit/s	X	X	X	X	X	X
Multimaster 9.6 KBit/s - 187.5 KBit/s		X	X	X	X	X
MPI-Bus 19.2 KBit/s	X	X	X	X	X	X
MPI-Bus 187.5 KBit/s	X	X	X	X	X	X
MPI-Bus 1.5 MBit/s		X	X	X	X	X
Profibus 9.6 KBit/s		X	X	X	X	X
Profibus 19.2 KBit/s	X	X	X	X	X	X
Profibus 45.45 KBit/s		X	X	X	X	X
Profibus 93.75 KBit/s		X	X	X	X	X
Profibus 187.5 KBit/s	X	X	X	X	X	X
Profibus 500 KBit/s		X	X	X	X	X
Profibus 1.5 MBit/s		X	X	X	X	X
Profibus 3.0 MBit/s		X	X	X	X	X
Profibus 6.0 MBit/s		X	X	X	X	X
Profibus 12.0 MBit/s		X	X	X	X	X
Profibus-profile DP	x(12)	X	X	X	X	X
Profibus-profile standard	x(12)	X	X	X	X	X
Profibus-profile universal(DP/FMS)		X	X	X	X	X
RS 232 9.6 KBit/s	x(19)	x(19)				
RS 232 19.2 KBit/s	X	X				
RS 232 38.4 KBit/s	X	X				
RS 232 57.6 KBit/s	x(9)	x(9)				
RS 232 115.2 KBit/s	x(9)	x(9)				
USB USB 1.1 (6)		x(1)	X		x(2)	
LAN 10/100BaseTx				x(7)		X
TeleService operation with S7-300/400	x(14)(18)	x(14)(18)				
baud rates at TS-operation directly at the PC 9.6 KBit/s	X	X				
baud rates at TS-operation directly at the PC 19.2 KBit/s	X	X				
baud rates at TS-operation directly at the PC 38.4 KBit/s	x(8)	x(8)				
baud rates at TS-operation directly at the PC 57.6 KBit/s	x(8)	x(8)				
baud rates at TS-operation directly at the PC 9.6 KBit/s	X	X				
baud rates at TS-operation directly at the PC 19.2 KBit/s	X	X				
baud rates at TS-operation directly at the PC 38.4 KBit/s	X	X				
baud rates at TS-operation directly at the PC 57.6 KBit/s	X	X				
baud rates at TS-operation directly at the PC 115.2 KBit/s	X	X				

	MPI/PPI	MPI - II	MPI - USB	MPI - LAN	S7 - USB	S7 - LAN
HMI						
9.6 KBit/s	x	x	x(13)	x(13)	x(13)	x(13)
19.2 KBit/s	x	x	x(13)	x(13)	x(13)	x(13)
38.4 KBit/s	x	x	x(13)	x(13)	x(13)	x(13)
57.6 KBit/s	x	x	x(13)	x(13)	x(13)	x(13)
115.2 KBit/s	x	x	x(13)	x(13)	x(13)	x(13)
update						
firmware-Update	x(10)	x(10)	x(15)	x(15)	x(15)	x(15)
input/online help						
keypad	x	x	x		x(21)	
display	x	x	x	x		x(21)
simultaneous PD connections						
PLCVCOM		1	1	8	1	8
RFC1006				x		x
simultaneous AG connections						
passive subscriber	1	15	15	15	15	15
active subscriber	126	126	126	126	126	126
more functions						
webserver for configuration				x		x
remote access over existing VPN connections				x		x
access over existing wireless connections				x		x
status/control variable(20)				x		x
S7 on S7/S5 DB exchange(20)				x		x
S5 on MPI DB exchange(20)		x				
S7 an MPI (Send/Fetch)(20)				x		x
Profinet Gateway(20)				x		x
MPI-Printer(Netzwerk, lpr)(20)				x		x
Time in PLC of NTP-server (20)				x		x
galvanic separation						
to the bus (screen connected through)	1KV	1KV	1KV	1,5KV	1KV	1,5KV
mounting						
wall monuting (with opt. wallmounting-set)	x	x	x	x		
upgrading with						
CheapConn+cable	x	x	x	x		
supports						
WIN 98	x	x(3)		x		x
WIN 98 SE	x	x	x	x	x	x
WIN ME	x	x	x	x	x	x
WIN NT	x	x(5)	x(5)	x	x(5)	
WIN 2000	x	x	x	x	x	x
WIN XP Home (4)	x	x	x	x	x	x
WIN XP Professional	x	x	x	x	x	x
Vista(32bit)	x	x	x	x	x	x
Win7(32bit)	x	x	x	x	x	x
Win7(64bit)	x(22)	x(22)	x	x	x	x

(1) just with USB-cable plug <-> plug, type A <-> A, item number: 9352.1

(3) only serial communication

(4) Siemens Step7 V5.2 and higher dont run with this operationing system

(5) USB-communication is only possible with the special driver forWin NT

(6) USB 2.0 is backward compatible to 1.1

(7) Cable is designed for direct connection to PC network card socket. It can also be a hub / switch with uplink port or operated at a hub / switch with automatic detection of assignment and adaptation

(8) only in combination with the MPI-Speed-driver („continously-active“)

(9) Siemens Step7 supports these baud rates onlywith the MPI-Speed-Utility

(10) Update directlywith PC or via Tele-Network if the cable is connected to a device of the Tele-Network-family (Tele-Link, Tele-Book or Tele-Professional)

(11) only in the mode:MultiMaster-Mode

(12) up to a maximum baud rate of 187.5 KBit/s

(13) In this transmission, the baud rate is irrelevant, because it communicates via a virtual COM-port.

(14) with the use of the TS-adapter / item number: 9350.TS

(15) Update directlywith PC via virtual COM-Port

(18) Operation requires Step 7 with additional software Tele-Service (TS) from Siemens

(19) only at PPI-communication possible

(20) option with costs

S7-LAN



- Supplied driver **TIC** allows communication and configuration of the interface product
- Function with TIA-Portal and Simatic-Manager, also with WinCC and Comfort Panel
- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Master-class 2 for acyclic services (DPV1)
- Cyclic read of time from NTP server and set in the connected PLC
- Coupling with DB-transfer to S7-LAN, S7-Gateway, S7-CP, S5-LAN++ or S5 Gateway
- Power supply from the S7-PLC or external
- Network configuration free adjustable
- VPN remote maintenance possible / for the maintenance of the PLC via Internet
- With full PD – diagnosis socket
- Active module, no influence on further bus-clients in the system
- Coupling of two PLC's S7 - S7 / S7 -S5 is possible with the Gateway type
- Provides the coupling with Android operating-system [for example S7Droid]

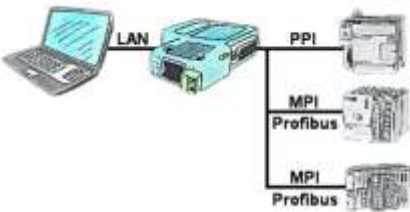
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	Web-Browser 2 status-LEDs
Handling/Configuration:	Web-Browser Kabelmanager-Software
Interfaces:	to the PLC: PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd to the PD/PC: PD/diagnosis jack 10/100BaseTX RJ45-ethernet jack
Galvanic separation:	1500V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

Commercial data:

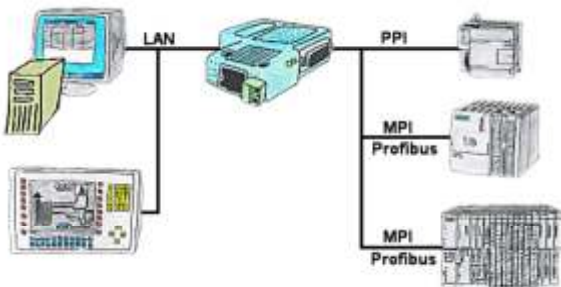
EAN number:	4260363240017
HS-code:	85444290
Weight:	0.1000 kg

Programming of S7-PLC-devices via LAN



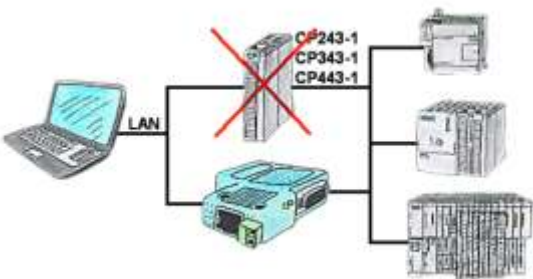
You would like to respond to your S7-PLC-device via LAN but not integrate an Ethernet-CP? No problem, plug the S7-LAN or also the MPI-LAN-cable on the MPI/PPI/Profibus-interface and access via LAN.

Watching of S7-PLC-devices via LAN without Ethernet-CP



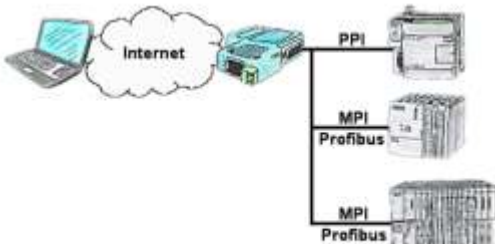
Your panel only has a LAN-socket as PLC-interface? No problem, connect this socket with the S7-LAN or the MPI-LAN-cable and plug it directly on the PPI/MPI/Profibus of the PLC. Then access to the variables and data of the PLC is already available.

S7-CP-replacement (without LAN-CP to the PLC-device)



Do you have a S7-PLC-device without CP243-1, CP343-1 or CP443-1 and would like to connect via LAN? Then plug the S7-LAN on the PLC-device and your access via RFC1006 is ready for use.

Remote maintenance of your S7-PLC-device via LAN / Internet



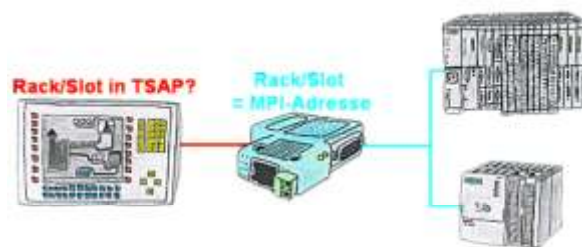
You have access to a on-site network and your PLC-device has no LAN-connection? No problem, plug the S7-LAN on the PLC-device and you will have immediate access to the PLC from afar.

Without LAN-cable round of the PLC



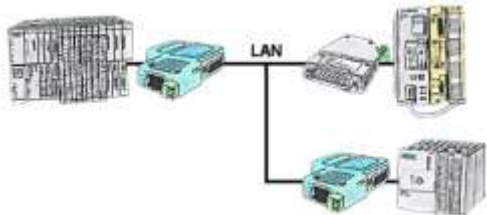
You're right in the middle of your production line and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the S7-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

Transformation of Rack/Slot in TSAP to MPI-address



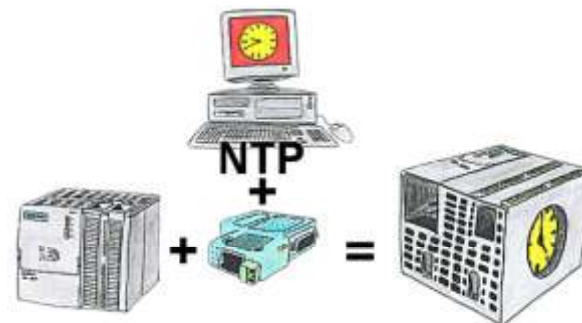
Your panel or visualisationsystem addresses the used PLC with Rack/Slot in TSAP? No problem, activate this mode in the S7-LAN and you will get actual data from the PLC.

PLC coupling (data exchange between PLC-devices)



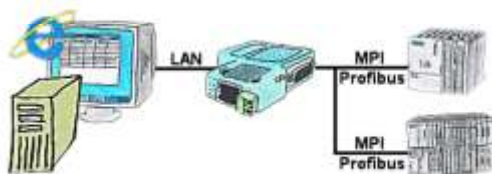
Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Actual time for the PLC?



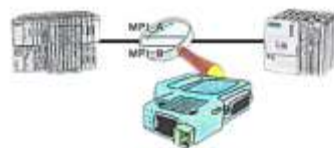
You need in your PLC a actual time? No problem, with the NTP-function the S7-LAN-module get from a NTP-(Time-)Server the actual time and transfers it direct into the configured PLC or for processing in a DB.

Variable-chart without Step7-programming package



You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option „Status Variable“ is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Malfunctions on the Bus although everything is (apparently) connected properly?



The S7-LAN can also be used for controlling/checking the MPI/Profibus. It will be plugged on the Bus so that you can take a look at the status of the busses via software on PC, for example the numbers of parity errors.

article:

Art. ID.	name	price
9352-LANCON	S7-LAN connector Ethernetmodule for PP/MPI/Profibus	399,- €

options:

Art. ID.	name	price
9352-IPDEVICETOS7	IPDeviceToS7 IP-devices writing/reading DB in S7-PLC	290,- €
9352-VAST	Option "Variable Control" view of variables in web browser with setpoint monitoring and e-mail-alerts	99,- €
9352-WATCHDOG	Option Watchdog controlling of the connected MPI/Profibus with webbrowser or over port	99,- €

accessories:

Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	121	10,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €

MPI/PPI

- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Integrated display for output of diagnostic informations
- Applicable as TS/HMI adapter
- Double-sided connected cable
- Short plug to PLC



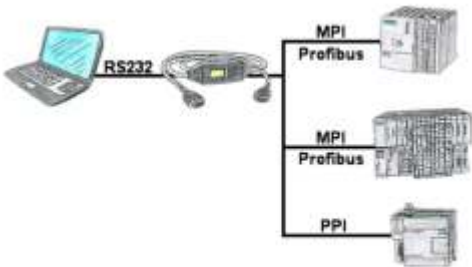
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software
Interfaces:	to the PLC: PPI/MPI-bus interface: 9,6 KBd - 187,5 KBd
	to the PD/PC: RS232: 9,6 KBd - 115,2 KBd
Galvanic separation:	1000V PPI/MPI-bus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Commercial data:

EAN number:	4260363241304
HS-code:	85444290
Weight:	0.3000 kg

Serial programming of the S7- PLC



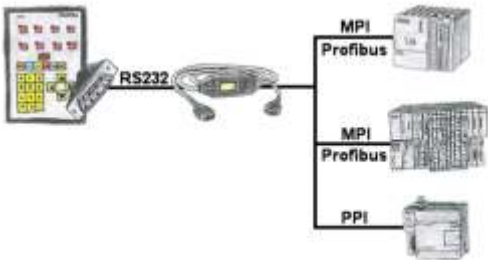
Remote maintenance with TS-software without original TS-adaptor



With the MPI/PPI-cable you have the ability to access a connected SPC-PLC S7-200 (PPI 9600 Baud and 19200 Baud) as well as S7-300/400 (MPI/Profibus 9600 Baud up to 187500 Baud) via PC serial with up to 115200 Baud for reading respectively writing of data.

You have to reach urgend your PLC via remote maintenance and have no TS-adaptor in your company? No problem, configure with the MPI-Kabelmanager your S7-interface-cable MPI/PPI-Kabel the mode "TS" for "remote maintenance", connect this cable with the TS-Adapter (article number 9350-TS) with a standard modem and send it all to your client. Now you will be able to start the connection with your TS-software and solve the problem. And this all without buying a original TS-adapter.

Visualisation of your S7- PLC via COM-Port



Your panel provides a serial port and no MPI/Profibus for connecting a S7-PLC. Connect the MPI/PPI-cable with it and you're Online with your panel.

article:		
Art. ID.	name	price
9350	MPI+PPI+HMI+TS - Interfacecable 3m with LCD-display	178,- €
9350.05M	MPI+PPI+HMI+TS - Interfacecable 5m with LCD-display	184,- €
9350.10M	MPI+PPI+HMI+TS - Interfacecable 10m with LCD-display	196,- €
9350.15M	MPI+PPI+HMI+TS - Interfacecable 15m with LCD-display	209,- €

variant:		
Art. ID.	name	price
9350-M	MPI+PPI-Interface cable TS-version 2m 9-pin modem plug	199,- €

accessories:			
Art. ID.	name	page	price
9350-TS	Adapter cable 9pins to modem for TS-function	108	30,- €
9350-9-CHP	CheapConn Busconnector for PROFIBUS	130	25,- €
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	106	10,- €
9352-104	MPI-PC104-card 1 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	315,- €
9352-104-2	MPI-PC104-card 2 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	415,- €
9350-4	Power-adapter for MPI-cable with power-supply unit 100-240VAC	106	51,- €
9350-4-ON	Power-adapter for MPI-cable without power-supply unit	107	41,- €
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	130	35,- €
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9361-7	T-Connector to PPI / MPI-Bus doubling of PP/MPI/Profibus-port without bus connector	73	143,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	108	5,- €
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	109	5,- €

MPI-II

- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Master-class 2 for acyclic services (DPV1)
- Integrated display for output of diagnostic informations
- Power supply from the S7-PLC or external
- Applicable as TS/HMI adapter
- USB-connector
- Double-sided connected cable
- Short plug to PLC

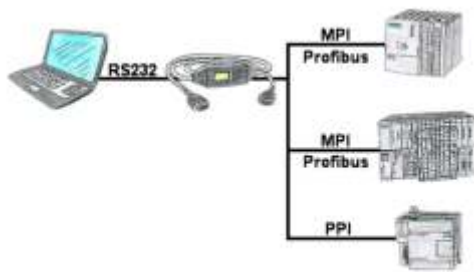


Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	to the PLC: PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd to the PD/PC: RS232: 9,6 KBd - 115,2 KBd USB 1.1 for cable type A <-> A
Galvanic separation:	1000V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

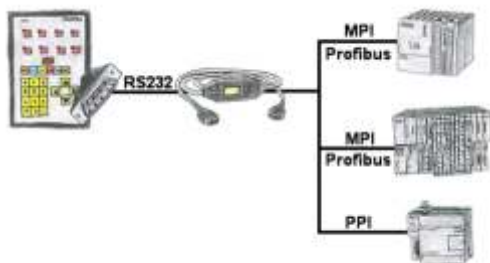
Commercial data:

EAN number:	4260363240932
HS-code:	85444290
Weight:	0.3000 kg



With the MPI/PPI-cable you have the ability to access a connected SPC-PLC S7-200 (PPI 9600 Baud and 19200 Baud) as well as S7-300/400 (MPI/Profibus 9600 Baud up to 187500 Baud) via PC serial with up to 115200 Baud for reading respectively writing of data.

Visualisation of your S7- PLC via COM-Port



Your panel provides a serial port and no MPI/Profibus for connecting a S7-PLC. Connect the MPI/PPI-cable with it and you're Online with your panel.

article:

Art. ID.	name	price
9350	MPI+PPI+HMI+TS - Interfacecable 3m with LCD-display	178,- €
9350.05M	MPI+PPI+HMI+TS - Interfacecable 5m with LCD-display	184,- €
9350.10M	MPI+PPI+HMI+TS - Interfacecable 10m with LCD-display	196,- €
9350.15M	MPI+PPI+HMI+TS - Interfacecable 15m with LCD-display	209,- €

variant:

Art. ID.	name	price
9350-M	MPI+PPI-Interfacecable TS-version 2m 9-pin modem plug	199,- €

accessories:

Art. ID.	name	page	price
9350-TS	Adapter cable 9pins to modem for TS-function	108	30,- €
9350-9-CHP	CheapConn Busconnector for PROFIBUS	130	25,- €
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	106	10,- €
9352-104	MPI-PC104-card 1 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	315,- €
9352-104-2	MPI-PC104-card 2 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	415,- €
9350-4	Power-adapter for MPI-cable with power-supply unit 100-240VAC	106	51,- €
9350-4-ON	Power-adapter for MPI-cable without power-supply unit	107	41,- €
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	130	35,- €
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9361-7	T-Connector to PPI / MPI-Bus doubling of PPI/MPI/Profibus-port without bus connector	73	143,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	108	5,- €
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	109	5,- €

S7-USB

- Supplied driver **TIC** allows communication and configuration of the interface product
- Function with TIA-Portal and Simatic-Manager, also with WinCC and Comfort Panel
- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Master-class 2 for acyclic services (DPV1)
- With full PD – diagnosis socket
- Power supply from the USB-jack
- Active module, no influence on further bus-clients in the system



Technical Specifications:

Supply voltage:	5V/DC	
Power consumption:	2 watt	
Display:	2 status-LEDs	
Handling/Configuration:	Kabelmanager-Software	
Interfaces:	to the PLC: PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd	
	to the PD/PC: PD/diagnosis jack Mini-USB-B-Buchse	
	Galvanic separation:	1000V PPI/MPI/Profibus to the PC
	Operating temperature:	5 - 55°C
Case:	ABS-plastic case	
Dimensions:	65 x 43 x 17 mm	

Commercial data:

EAN number:	4260363240000
HS-code:	85444290
Weight:	0.1000 kg

Access to MPI/Profibus without power supply



You're right in the middle of your production line and are standing in front of a passive assembly just like a switcher or a ET200, in that case you won't be able to go Online without an external power supply of your programming adapter, unless you're using the S7USB. This module is supplied completely from the USB-interface.

article:		
Art. ID.	name	price
9352-S7-USB	S7-USB universal USB-module on PPI/MPI/Profibus 9,6 KBit/s up to 12MBit/s	299,- €

accessories:			
Art. ID.	name	page	price
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9352.3	USB-cable plug/plug type A-B-Mini 3m USB 1.1 / 2.0 up to 480 MBit	122	23,- €

MPI-USB

- Supplied driver **TIC** allows communication and configuration of the interface product
- Function with TIA-Portal and Simatic-Manager, also with WinCC and Comfort Panel
- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Master-class 2 for acyclic services (DPV1)
- Power-supply from USB
- Double-sided connected cable
- Short plug to PLC



Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	2 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	to the PLC: PP/MPI/Profibus interface: 9,6 KBd - 12 MBd to the PD/PC: USB 1.1 cable type A
Galvanic separation:	1000V PP/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Commercial data:

EAN number:	4260363240598
HS-code:	85444290
Weight:	0.2400 kg

Access to MPI/Profibus without power supply



Your're right in the middle of your production line and are standing in front of a passive assembly just like a switcher or a ET200, in that case you won't be able to go Online without an external power supply of your programming adapter, unless you're using the MPI-USB. This cable is supplied completely from the USB-interface.

article:		
Art. ID.	name	price
9352-USB	MPI-USB-cable 3m PP/MPI/Profibus up to 12Mbit/s	299,- €
9352-USB.05M	MPI-USB-cable 5m PP/MPI/Profibus up to 12Mbit/s	324,- €

accessories:			
Art. ID.	name	page	price
9350-9-CHP	CheapConn Busconnector for PROFIBUS	44	25,- €
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	106	10,- €
9352-104	MPI-PC104-card 1 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	315,- €
9352-104-2	MPI-PC104-card 2 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	415,- €
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	130	35,- €
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9361-7	T-Connector to PPI / MPI-Bus doubling of PP/MPI/Profibus-port without bus connector	73	143,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	130	5,- €
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	109	5,- €

MPI-LAN

- Supplied driver **TIC** allows communication and configuration of the interface product
- Function with TIA-Portal and Simatic-Manager, also with WinCC and Comfort Panel
- Automatic protocol- and baud rate detection (depends on the used product from 9K6 to 12M)
- Connects only to the bus when it is requested by PG
- Firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI/Profibus - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- All intelligent MPI-interface-products including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- All products, including the examples and demo-version of communication driver on delivered CD
- Master-class 2 for acyclic services (DPV1)
- Cyclic read of time from NTP server and set in the connected PLC
- Coupling with DB-transfer to S7-LAN, S7-Gateway, S7-CP, S5-LAN++ or S5 Gateway



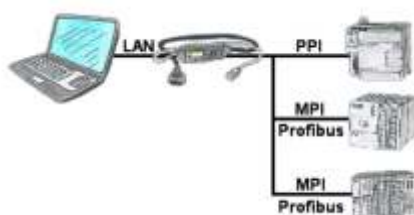
- Power supply from the S7-PLC or external
- Network configuration free adjustable
- VPN remote maintenance possible / for the maintenance of the PLC via Internet

- Integrated display for output of diagnostic informations
- Double-sided connected cable
- Short plug to PLC
- Provides the coupling with Android operating-system [for example S7Droid]

Technical Specifications:

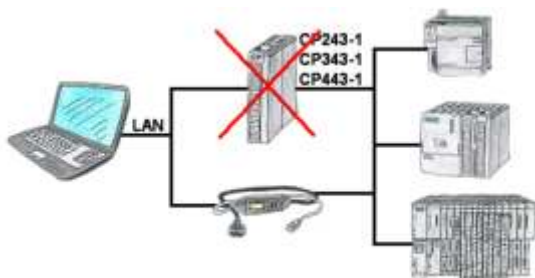
Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	to the PLC: PP/MP/Profibus interface: 9,6 KBd - 12 MBd to the PD/PC: 10/100MBit ethernet interface
Galvanic separation:	1500V PP/MP/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm
Commercial data:	
EAN number:	4260363240949
HS-code:	85444290
Weight:	0.3000 kg

Programming of S7-PLCs via LAN



You would like to respond to your S7-PLC-device via LAN but not integrate an Ethernet-CP? No problem, plug the S7-LAN or also the MPI-LAN-cable on the MPI/PP/Profibus-interface and access via LAN.

S7-CP-replacement (without LAN-CP to the PLC-device)



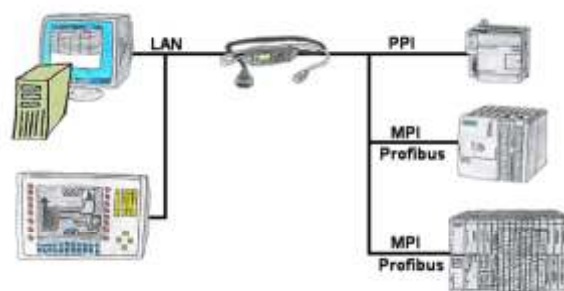
Do you have a S7-PLC-device without CP243-1, CP343-1 or CP443-1 and would like to connect via LAN? Then plug the S7-LAN on the PLC-device and your access via RFC1006 is ready for use.

Without LAN-cable round of the PLC



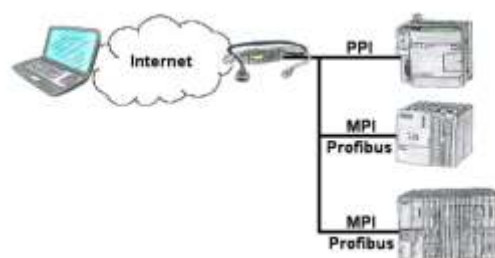
You're right in the middle of your production line and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the MPI-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

Watching of S7-PLC-devices via LAN without Ethernet-CP



Your panel only has a LAN-socket as PLC-interface? No problem, connect this socket with the S7-LAN or the MPI-LAN-cable and plug it directly on the PP/MP/Profibus of the PLC. Then access to the variables and data of the PLC is already available.

Remote maintenance / telecontrol of PLC-devices via LAN / internet



You have access to a on-site network and your PLC-device has no LAN-connection? No problem, plug the S7-LAN on the PLC-device and you will have immediate access to the PLC from afar.

Transformation of Rack/Slot in TSAP to MPI-address



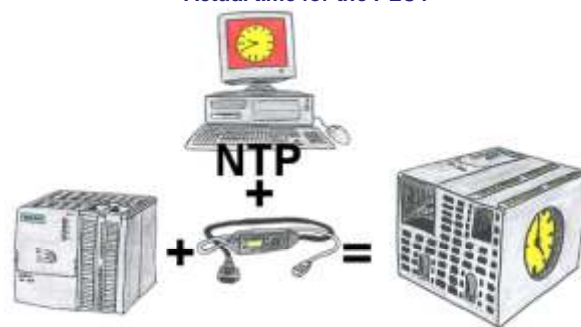
You have access to a on-site network and your PLC-device has no LAN-connection? No problem, activate this mode in the MPI-LAN-cable and you will get actual data from the PLC.

PLC-coupling (data exchange between PLC-devices)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Actual time for the PLC?



You need in your PLC a actual time? No problem, with the NTP-function the MPI-LAN-cable get from a NTP-(Time-)Server the actual time and transfers it direct into the configured PLC or for processing in a DB.

Variable-chart without Step7-programming package



You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option „Status Variable“ is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Malfunctions on the Bus although everything is (apparently) connected properly?



The S7-LAN can also be used for controlling/checking the MPI/Profibus. It will be plugged on the Bus so that you can take a look at the status of the busses via software on PC, for example the numbers of parity errors.

article:		
Art. ID.	name	price
9352-LAN	MPI-LAN-cable 3m PPI/MPI/Profibus up to 12Mbit/s	399,- €

options:		
Art. ID.	name	price
9352-VAST	Option "Variable Control" view of variables in web browser with setpoint monitoring and e-mail-alerts	99,- €
9352-WATCHDOG	Option Watchdog controlling of the connected MPI/Profibus with webbrowser or over port	99,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9350-9-CHP	CheapConn Busconnector for PROFIBUS	44	25,- €
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	106	10,- €
9352-104	MPI-PC104-card 1 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	315,- €
9352-104-2	MPI-PC104-card 2 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	44	415,- €
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	130	35,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9352-RS485-SK	Stub-compensator without galv. separation	108	79,- €
9361-7	T-Connector to PPI / MPI-Bus doubling of PPI/MPI/Profibus-port without bus connector	73	143,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	108	5,- €
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	109	5,- €

PC-104-card 1-channel or 2-channel

- Card conforms to PC104-declaration (90.2 x 95.9mm)
- Depending on the version 1 or 2 connector sockets for post-spring-bar for PPI, MPI and Profibus
- Supports all baud rates up to 12M
- PC104 bus through dual-Portet-Ram separate from actual hardware
- PPI, MPI and PROFIBUS is electrically isolated from residual Hardware
- Firmware is kept in the integrated flash-memory, therefore easier update possible



Commercial data:

EAN number: 4260363243308

article:		
Art. ID.	name	price
9352-104	MPI-PC104-card 1 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	315,- €

variant:		
Art. ID.	name	price
9352-104-2	MPI-PC104-card 2 channel up to 12Mbaud equates to PC104-standard (90.2 x 95.9mm)	415,- €

Connector

Cheap-Conn

- Cable connection via compression fitting technique
- Integrated switchable terminating resistors
- Different cable diameter useable
- One-screw mounting system
- Inside screened housing
- 90° cable outlet



Technical Specifications:

Configuration:	Switch for bus termination (ON/OFF)
Interfaces:	to the PLC: PPVMP/Profibus interface: 9,6 KBd - 12 MBd
	to the PD/PC: PD/diagnosis jack
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

Commercial data:

EAN number:	4260363243230
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9350-9-CHP	CheapConn Busconnector for PROFIBUS	25,- €

accessories:			
Art. ID.	name	page	price
9350-9-CHP-K	Connecting cable MP1x to CheapConn 9-pins 1 : 1 plated-through with shield	108	5,- €

Profinet-Connector

- Fast assembly by Fast-Connect-Version
- High interference resistance because of full metal case
- Visual connection control
- Cable connection via comfortable insulation displacement technology
- Alternative captive two-screw mounting system or rotary-latch
- Locking with metal nose, so no collapse possible



Technical Specifications:

Connector-type:	180° RJ45-plug
Terminals:	4-wire + Shield for Industrial Ethernet FC-cables
Fast Connect (FC):	Yes
Baudrate:	100 Mbps - Cat 5e
Cable length:	maximum 100m

Operating temperature:	-20 - +70°C
Storage temperature:	-40 - +80°C
Relative humidity during operation:	<95%
Isolation class:	IP 20
Dimensions (WxHxD):	13,7 x 16 x 55mm
Weight:	45g

Commercial data:

EAN number:	4260363243933
HS-code:	85369010
Weight:	0.1000 kg

article:		
Art. ID.	name	price
300 901-1BB10	Profinet-Connector with screw lock Connector for industrial fast-connect-cable	12,- €
300 901-1BB11	Profinet-Connector with rotary-latch Screwless connector for industrial fast-connect-cable	12,- €

Profibus-Plug-DiagConn PB

- Status display for bus test functions
- High interference resistance because of full metal case
- Visual connection control
- Cable connection via comfortable insulation displacement technology
- Captive one-screw mounting system
- Integrated shiftable load resistor
- Cable outlet versions 0° / 45° / 90°



Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,15 watt
Display:	4 status-LEDs
Interfaces:	to the PLC: PPI/MP/Profibus interface: 9,6 KBd - 12 MBd
	to the PD/PC: PD/diagnosis-socket (only at the 45° and 90° variant)
	others: 2 x appliance for connecting a 8mm buscable
Operating temperature:	-20 - +75°C
Case:	zinc-diecast
Dimensions:	66 x 40 x 16 mm

Commercial data:

EAN number:	4260363240666
HS-code:	85369010
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9350-0-DIAG	DiagConn 0° Highend-connector for PROFIBUS with diagnosis functions	42,- €
9350-4-DIAG	DiagConn 45° Highend-connector for PROFIBUS with diagnosis functions	42,- €
9350-9-DIAG	DiagConn 90° Highend-connector for PROFIBUS with diagnosis functions	42,- €

S5 - Interface

With each interface of your PC to the S5-PLC

- multifunctional, several functions in one product
- well-priced alternative to high-priced original products



Ihre Vorteile beim Einsatz der PI-Interfacekabel:

- Umfangreiches Kabel- und Adapterprogramm
in unserem Lager steht Ihnen ein umfangreiches Kabel- und Adapterprogramm zur Verfügung, selbst für Sonderverbindungen haben wir eine Lösung für Sie
- Einfache Handhabung
für die meisten Kopplungen ist keine externe Stromversorgung notwendig
- Servicefreundlich
unsere kostenlose technische Hotline steht Ihnen mit Rat und Tat zur Verfügung
- Funktionssicherheit
jedes Kabel wird nach Qualitätsrichtlinien in Deutschland hergestellt und geprüft
- Funktionsgarantie
jedes einzelne Kabel wird mit einem speziellen Kabelprüfgerät auf sämtliche Verbindungen und an einer SPS auf Online-Funktion geprüft
- CE und EMV Sicherheit
alle Kabel sind nach den geltenden Richtlinien geprüft

application table:

	PG-UNI + PG-UNI-II	S5-LAN++	PG-USB	PG-COM	PG-ISO-SET
device type					
S5-90U	x	+ext. 24V	x	x	x
S5-95U	x	+ext. 24V	x	x	x
S5-100U	x	+ext. 24V(2)	x	x	x
S5-115U	at 944 + 9359-8	at 944 + 9359-8 +ext. 24V (4)	x	x	x
S5-135U	at 928B + 9359-8	at 928B + 9359-8 +ext. 24V (6)	x	x	x
S5-155U	x	x	x	x	x
S5-AG110S	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
S5-AG130W/B	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
S5-AG150A/K/S/U	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
CP-143	x		x		x
CP-521	+CP521 adapter				+CP521 adapter(1)
CP-523	+CP523 adapter				+CP523 adapter(1)
CP-525	+9359-5		+9359-USB		+9359-5(1)
CP-526	x		x		x
CP-527	x		x		x
CP-528	x		x		x
CP-544	x		x		x
CP-5430	x		x		x
CP-5431	x				
IP-252	x		x		x
IP-247	x		x		x
IP-252	x		x		x
IP-266	+9359-4		x		+9359-4(1)
WF-470	+9359-4 + 9359-5-WF470		+9359-5-WF470-USB		+9359-5-WF470 + 9359-4(1)
SIN-805	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-820	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-840	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-850	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-880	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
max. prolongation:	300m (UNI-extension)	300m (S5-LAN-extension) +ext. 24V	100m (PG-USB- extension)		300m (UNI-extension)

(1) ISO adapter can not be used because the required supply voltage on the PG interface of the module is not present.

(2)At the CPU 6ES5 102-8MA02 Release 3 is a PG-ISO-Adapter or Netz-Adapter additional required.

(3)With S5-LAN++ HW V2.3 the "Netz-Adapter" is no more needed, this version has included current-sources.

(4)With S5-LAN++ HW V2.3 no accessories are needed, this version has included current-sources.

(5)With S5-LAN++ HW V2.3 a Sinum-Adapter with special pinning is needed.

(6)Only for CPU928B with PG-ISO-adapter and ext. 24V DC, unless a S5-LAN++ HW V2.3 would be used

S5-LAN++



- Fastest installation to the network of every SIMATIC - S5
- No complicated installation, simply plug on PD-interface and communicate
- S7 compatible
- Communication with Fetch/Write
- PUT/GET with S7-TCP/IP
- Reading and writing of S5-data (E,A,M,DB,Z,T) via TCP/IP
- Ideal for process-visualisation
- Programming with STEP 5 via Ethernet
- Simultaneous programming (multiple PD-channels) and visualisation possible (integrated multiplexer function)
- Power supply from the S5-PLC or external
- Disclosed TCP/IP-protocol
- DHCP / Auto-IP supported
- Timing-equitable communication with the S5-PLC via integrated firmware
- Driver-DLL for Windows available, EXCEL and WORD can read/write S5-data
- Compatible with VIPA-S5-TCP/IP driver
- Direct operation with WinCC via TCP/IP driver S5 Layer4 possible
- With WinCC Flexible (e.g. MP377, TP177B) via S7-TCP/IP to the Simatic S5 (CP-343-1 compatible)
- Data exchange between S5 – S5 and S5 - S7 via TCP/IP
- RK 512 and TCP/IP H1-ISO-On-TCP RFC1006 (CP1430 TCP) supported
- Versions: 3964R-LAN, ASCII-LAN, PG-LAN, as RS232-version and for the MUX757
- Including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- Including the examples and demo-version of communication driver on delivered CD

Attention:

For hardware-version V2.3 and newer of the S5-LAN++ must be used for AG-150U and Sinumerik the USB versions of the adapter.
For all older hardware-versions without the addition of "-USB"!

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	status-LED
Handling/Configuration:	reset-switch-key (factory setting) S5-LAN Manager
Interfaces:	to the PLC: TTY/20mA current loop (S5-LAN passiv, PLC aktiv) to the PD/PC: 10/100BaseTX RJ45-ethernet jack
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	42 x 15 x 65 mm

Commercial data:

EAN number:	4260363240024
HS-code:	85444290
Weight:	0.1000 kg

Remote maintenance of your S5-PLC via LAN / Internet



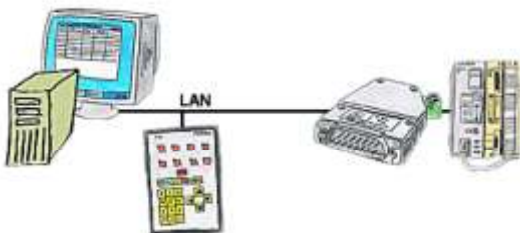
You have access to a on-site network and your PLC has no LAN-connection? No problem, plug the S5-LAN on the PLC and you will have immediate access to the PLC from afar.

Programmina of S5-PLC's via LAN



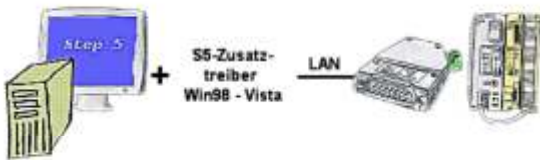
You would like to respond to your S5-PLC via LAN, but not integrate an Ethernet-CP? No problem, plug the S5-LAN++ on the PD-interface and access via LAN.

Watching of S5-PLC's via LAN without Ethernet-CP



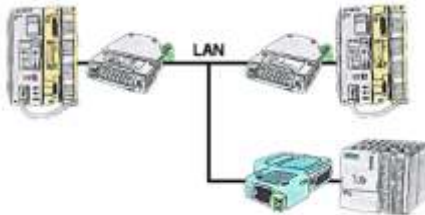
Your panel only has a LAN-socket as PLC-interface, no problem. Connect this socket with the S5-LAN++ and plug it directly on the PD-interface of the PLC. Then access to the variables and data of the PLC is already available.

Communication with Win98 – XP/Vista via LAN to S5-PLC



You still have a PC with Win98 and a MS-DOS-based Step5-package and would like to go Online on your S5-PLC via LAN? No problem, the provided virtual Com-Port PLCVCom emulates a COM-port on your PC with which you go Online. Even your MS-DOS-based Step5-software on this WIN98-PC can use this virtual Com-Port. With a patchtool for the Siemens Step5-software, which is provided as well, nothing else stands in your way to communicate via LAN.

PLC coupling (data exchange between PLC's)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Therefore no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Extension of a 3964R-line via LAN



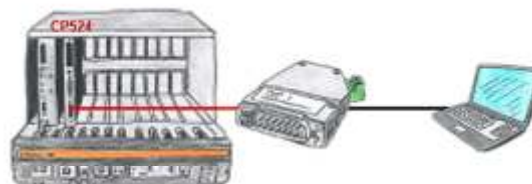
There is a control with CP524 in your outstation and the communication partner of the CP has moved locally. Connecting path is a LAN-network. So each of both participants gets a 3964R-LAN and after input of the partner's IP-address a coupling via LAN will be configured.

Watching of S5- PLC's with panel for S7-PLC



Your panel only has a LAN-socket as PLC-interface and supports only S7-RFC1006, no problem. Connect this socket with the S5-LAN++ and plug it directly on the PD-interface of the PLC. The S5-LAN++ performs adverse your panel as a S7-PLC although you receive the data from the S5-PLC. Then access to the variables and data of the S5-PLC is already available.

Visualisation via 3964R-interface without using the protocol itself



Your visualisation-software does not support a 3964R-protocol, but you have to apply this package? No problem, connect the 3964R-LAN to your CP and activate the RFC1006-emulation in the module. Now your software gets the data from the module via RFC1006, which in turn communicates with the assembly via 3964R.

article:

Art. ID.	name	price
9359-LAN	S5-LAN++ Industrial Ethernet <=> S5 PD-interface (TTY)	390,- €

variant:

Art. ID.	name	price
9359-RK	S5-3964R-LAN Industrial Ethernet <=> 3964R-protocol (TTY)	749,- €
9359-RK-RS	S5-3964R-LAN RS232-version Industrial Ethernet <=> 3964R-protocol, inclusive adapter cable (15pin female <=> 9pin male)	839,- €
9359-ASCII	S5-ASCII-LAN sends ASCII-data via Industrial Ethernet	490,- €
9359-LAN-PATH	S5-LAN with path-selection promotion Promotes the path-selection of the Step5-software	1890,- €
9359-LAN-RS	S5-LAN++ RS232-version Industrial Ethernet <=> S5 PD-interface (RS232), inclusive adapter cable (15pin female <=> 9pin male)	480,- €
9359-PG-LAN	S5-PG-LAN RS232-complement to S5-LAN++ (TTY/RS232)	799,- €

accessories:

Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9359-5-150	AG-150-adapter for PG-UNI+ PG-UNI-II-cable to AG-150	109	39,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	121	10,- €
9759.32-S7	IP-driver for S5/S7-LAN for windows, site / company license Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit	95	390,- €
9759.64-S7	IP-driver for S5/S7-LAN for windows, site / company license Win NT/2000/XP/Vista/7/8/Windowsserver 64-bit		390,- €
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	109	59,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	121	10,- €
9359-8	PG-ISO-adapter 1000V galv. separation	112	89,- €
9359-5-150-USB	PG-USB AG-150-adapter for PG-USB-cable to AG-150	110	39,- €
9359-6-USB	PG-USB SINUM-adapter for PG-USB-cable to SINUMERIK	112	39,- €
9359-6	SINUM-adapter for PG-UNI+ PG-UNI-II-cable to SINUMERIK	112	39,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	104	89,- €

PG-USB

- Complete electronics in the plug housing
- Slide lock for firm grip on the PLC
- Power supply from the USB-port
- Prolongable up to 100m on the PLC side
- Runs with the standard S5-software despite virtual com-port
- Virtual device-driver for Win2000 / XP / Vista / Windows7 / Win 8 / Win 8.1 (32+64-bit)



Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,3 watt
Display:	2 status-LEDs for RXT/TXD
Interfaces:	to the PLC: TTY/20mA current loop (PG-USB aktiv, PLC passiv) to the PD/PC: USB 1.1 cable type A
Operating temperature:	5 - 55°C
Case:	metal case
Dimensions:	50 x 40 x 17 mm

Commercial data:

EAN number:	4260363240581
HS-code:	85444290
Weight:	0.2000 kg

Active on every S5-PLC



Communication with Win98 – XP/Vista via USB to S5-PLC



You have to program an assembly which does not provide neither power sources nor voltages at your PD-interface, such as the AS511-card for example? No problem, the PG-USB-cable supplies itself completely from the USB-port and so it's active adverse the communication partner. He uses own power sources for the communication.

You still have a PC with Win98 and Step5-package and would like to go Online on your S5-PLC via USB? No problem, the provided virtual Com-Port PLCVCom emulates a COM-port on your PC with which you go Online. With a patchtool for the Siemens Step5-software, which is provided as well, nothing else stands in your way to communicate via LAN.

article:		
Art. ID.	name	price
9359-1	PG-USB-cable 3m for PLC's + LED + metal case	125,- €
9359-1.05M	PG-USB-cable 5m for PLC's + LED + metal case	150,- €

accessories:			
Art. ID.	name	page	price
9359-5-150-USB	PG-USB AG-150-adapter for PG-USB-cable to AG-150	110	39,- €
9359-5-USB	PG-USB CP-525-adapter for PG-USB-cable <-> CP-525-communication	110	39,- €
9359-5K-USB	PG-USB CP-525-K-adapter for PG-USB-cable <-> CP-525-communication	111	39,- €
9359-6-USB	PG-USB SINUM-adapter for PG-USB-cable to SINUMERIK	112	39,- €
9359-5-WF470-USB	PG-USB WF-470-adapter for PG-USB-cable <-> WF470	113	39,- €
9359-7-USB	PG-USB-lengthening set complete assembling set	114	29,- €

S5toMPI

- Bi-directional exchange of data blocks
- Automatic protocol- and baud rate detection
- Power supply from the S7-PLC or external
- Galvanic separation 1000V
- Double-sided connected cable
- Short plug to PLC
- Firmwareupdate via internet for free
- Easy handling without programming the S5/S7
- Incl. 9 pol. adapter for connecting a S5-interface cable
- Optional is a PG-COM or PG-UNI cable necessary



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	to the PLC: PPVMP/Profibus interface: 9,6 KBd - 12 MBd to the PD/PC: RS232: 9,6 KBd - 115,2 KBd USB 1.1 for cable type A <-> A
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Commercial data:

EAN number:	4260363243322
HS-code:	85444290
Weight:	0.3000 kg

Coupling of S5-PLC with S7-PLC via PD-interfaces

You still have an installation in your machinery which is equipped with a S5-PLC and the modification to S7 isn't profitable, but the central control needs the manufacturing data? No problem, connect the S5-PLC via the S5toMPI to your central control and the S5toMPI ensures that the data will be accordingly interchanged. Both sides can be active, but also only one. Both is configurable.

article:		
Art. ID.	name	price
9352-S5-OP	S5toMPI/Profibus DB-exchange from S5 to S7 over the PD-ports	399,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9350-9-CHP	CheapConn Busconnector for PROFIBUS	44	25,- €
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	106	10,- €
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	130	35,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	130	5,- €
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	109	5,- €

appropriate interface-cables:		
Art. ID.	name	price
9359.10CM	PG-COM-cable 0.1m special length PC 9pins COM-port <=> PLC 15pins X4/X5 port	59,- €
9359	PG-COM-cable 3m PC 9pins COM-port <=> PLC 15pins X4/X5 port	59,- €
9359.05M	PG-COM-cable 5m PC 9pins COM-port <=> PLC 15pins X4/X5 port	66,- €
9359.10M	PG-COM-cable 10m PC 9pins COM-port <=> PLC 15pins X4/X5 port	83,- €
9359.15M	PG-COM-cable 15m PC 9pins COM-port <=> PLC 15pins X4/X5 port	97,- €
9359-2	PG-UNI-II-cable 3m for PLC/CP/IP+ LED + metal case	99,- €
9359-2.05M	PG-UNI-II-cable 5m for PLC/CP/IP+ LED + metal case	109,- €

appropriate interface-cables:		
Art. ID.	name	price
9359-2.10M	PG-UNI-II-cable 10m for PLC/CP/IP+ LED + metal case	125,- €
9359-3.10CM	PG-UNI-cable 0.1m special length for PLC/CP-IP - connection	89,- €
9359-3	PG-UNI-cable 3m for PLC/CP-IP - connection	89,- €
9359-3.05M	PG-UNI-cable 5m for PLC/CP-IP - connection	99,- €
9359-3.10M	PG-UNI-cable 10m for PLC/CP-IP - connection	115,- €

PG-COM

- Complete electronics in the plug housing
- Slide lock for firm grip on the PLC
- Supply from the PLC over the 5V DC of the PD-port
- Maximum length of the cable according to standard: 15m
- Longer lengths available at your own risk



Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,2 watt
Display:	-
Interfaces:	to the PLC: TTY/20mA current loop (PG-COM passiv, PLC aktiv)
	to the PD/PC: RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	47 x 40 x 15 mm



Commercial data:

EAN number:	4260363240185
HS-code:	85444290
Weight:	0.2000 kg

Serial communication to the S5-PLC (CPU-assemblies 15pin)



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-COM-cable is exactly the right product. Connect it to PLC and PC and you're Online.

article:		
Art. ID.	name	price
9359.10CM	PG-COM-cable 0.1m special length PC 9pins COM-port <=> PLC 15pins X4/X5 port	59,- €
9359	PG-COM-cable 3m PC 9pins COM-port <=> PLC 15pins X4/X5 port	59,- €
9359.05M	PG-COM-cable 5m PC 9pins COM-port <=> PLC 15pins X4/X5 port	66,- €
9359.10M	PG-COM-cable 10m PC 9pins COM-port <=> PLC 15pins X4/X5 port	83,- €
9359.15M	PG-COM-cable 15m PC 9pins COM-port <=> PLC 15pins X4/X5 port	97,- €

variant:		
Art. ID.	name	price
9359-SON	Additional charge for special wiring PG-COM/ PG-UNI/ PG-UNI-II	5,- €
9390	Additional charge for special length for S5-Interface cables per Meter 3,- Euro	3,- €
9359.X	Special length: PG-COM-cable (3m) + 9390 PC 9pins COM-port <=> PLC 15pins X4/X5 port	69,- €

PG-UNI

- Complete electronics in the plug housing
- Slide lock for firm grip on the PLC
- Supply from the PLC of 20mA-current sources
- Galvanic separation to 1000V with PG-ISO-adapter
- Prolongable up to 300 meters on PLC side
- Functioned also at many CP's, IP's and Sinumerik-PLC's



Technical Specifications:

Supply voltage:	from the current sources of the PLC
Power consumption:	0,2 watt
Display:	-
Interfaces:	to the PLC: TTY/20mA current loop (PG-COM passiv, PLC aktiv) to the PD/PC: RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	47 x 40 x 15 mm



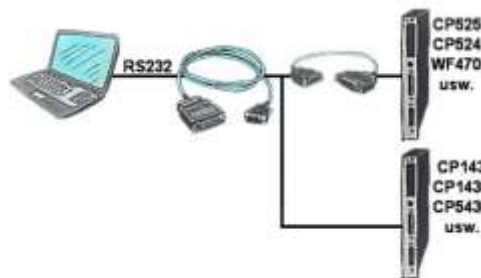
Commercial data:

EAN number:	4260363240307
HS-code:	85444290
Weight:	0.2000 kg

Serial communication to the S5-PLC



Serial communication with CP and more S5-assemblies



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-cable is exactly the right product. Connect it to PLC and PC and you're Online. Even the 25pin interface of the AS511-card is no problem. You need the NETZ-adapter and also the AG-150-adapter and then this control is programmable, too.

You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-cable is exactly the right product. Connect it to a Siemens assembly such as H1-CP (CP1430), WF470 and PC or CP-525 with the CP525-adapter and PC and you're Online.

article:		
Art. ID.	name	price
9359-3.10CM	PG-UNI-cable 0.1m special length for PLC/CP-IP - connection	89,- €
9359-3	PG-UNI-cable 3m for PLC/CP-IP - connection	89,- €
9359-3.05M	PG-UNI-cable 5m for PLC/CP-IP - connection	99,- €
9359-3.10M	PG-UNI-cable 10m for PLC/CP-IP - connection	115,- €

variant:		
Art. ID.	name	price
9359-SON	Additional charge for special wiring PG-COM/ PG-UNI/ PG-UNH	5,- €
9390	Additional charge for special length for S5-Interface cables per Meter 3,- Euro	3,- €
9359-3.X	Special length: PG-UNI-cable (3m) + 9390 for PLC/CP/IP - connection	101,- €

accessories:			
Art. ID.	name	page	price
9359-9.M	Adapter COM 1 : COM2 25pin (male) - 9pin (female)	122	17,- €
9359-9	Adapter COM 1 : COM2 9pin (male) - 25pin (female)	122	17,- €
9359-5-150	AG-150-adapter for PG-UNI + PG-UNH-cable to AG-150	109	39,- €
9359-5	CP-525-adapter for PG-UNI + PG-UNH-cable <-> CP-525	110	39,- €

accessories:			
Art. ID.	name	page	price
9359-5K	CP-525-K-adapter for PG-UNI + PG-UNH-cable <-> CP-525-communication	111	39,- €
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	109	59,- €
9359-8	PG-ISO-adapter 1000V galv. separation	112	89,- €
9359-7	PG-UNI - lengthening set complete assembling set	114	16,- €
9359-MAX233	RS232 / V24 chip for interface cable	123	5,- €
9359-6	SINUM-adapter for PG-UNI + PG-UNH-cable to SINUMERIK	112	39,- €
9359-5-WF470	WF-470-adapter for PG-UNI + PG-UNH-cable <-> WF470	113	39,- €
9310	Additional charge 25-pins PC-plug special construction of the RS232-side		10,- €

PG-UNI II

- Complete electronics in the plug housing
- Slide lock for firm grip on the PLC
- Supply from the PLC of 20mA-current sources
- Galvanic separation to 1000V with PG-ISO-adapter
- Prolongable up to 300 meters on PLC side
- Functioned also at many CP's, IP's and Sinumerik-PLC's
- ESD firm transducer component up to 15kV
- Display of RxD/TxD with LEDs



Technical Specifications:

Supply voltage:	from the current sources of the PLC
Power consumption:	0,25 watt
Display:	2 status-LEDs for RXT/TXD
Interfaces:	to the PLC: TTY/20mA current loop (PG-COM passiv, PLC aktiv)
	to the PD/PC: RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	metal case
Dimensions:	50 x 40 x 17 mm
Commercial data:	
EAN number:	4260363240239
HS-code:	85444290
Weight:	0.2000 kg

Insensible communication with the S5-PLC

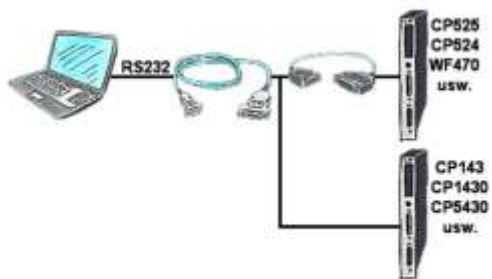


You need a communication to a PLC-device, which is stable against influence from out like frequency converter or electrostatic charge? No problem, the PG-UNI-II-cable is the correct interface cable. Its metal D-SUB-cases and esd-resistant components you will have here best protection against this influences.

Serial communication to the S5-PLC



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-II-cable is exactly the right product. Connect it to PLC and PC and you're Online. The communication itself is visible by the both included LEDs. Even the 25pin interface of the AS511-card is no problem. You need the NETZ-adapter and also the AG-150-adapter and then this control is programmable, too.



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-II-cable is exactly the right product. Connect it to a Siemens assembly such as H1-CP (CP1430), WF470 and PC or CP-525 with the CP525-adapter and PC and you're Online.

article:		
Art. ID.	name	price
9359-2	PG-UNI-II-cable 3m for PLC/CP/IP+ LED + metal case	99,- €
9359-2.05M	PG-UNI-II-cable 5m for PLC/CP/IP+ LED + metal case	109,- €
9359-2.10M	PG-UNI-II-cable 10m for PLC/CP/IP+ LED + metal case	125,- €

variant:		
Art. ID.	name	price
9359-SON	Additional charge for special wiring PG-COM/ PG-UNI/ PG-UNI-II	5,- €
9390	Additional charge for special length for S5-Interface cables per Meter 3,- Euro	3,- €
9359-2.X	Special length: PG-UNI-II cable (3m) + 9390 for PLC/CP/IP + LED + metal case	111,- €

accessories:			
Art. ID.	name	page	price
9359-9.M	Adapter COM 1 : COM2 25pin (male) - 9pin (female)	122	17,- €
9359-9	Adapter COM 1 : COM2 9pin (male) - 25pin (female)	122	17,- €
9359-5-150	AG-150-adapter for PG-UNI + PG-UNI-II-cable to AG-150	110	39,- €
9359-5	CP-525-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525	110	39,- €
9359-5K	CP-525-K-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	111	39,- €
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	111	59,- €
9359-8	PG-ISO-adapter 1000V galv. separation	112	89,- €
9359-7-II	PG-UNI-II - lengthening set complete assembling set	114	29,- €
9359-MAX233	RS232 / V24 chip for interfacecable	123	5,- €
9359-6	SINUM-adapter for PG-UNI + PG-UNI-II-cable to SINUMERIK	112	39,- €
9359-5-WF470	WF-470-adapter for PG-UNI + PG-UNI-II-cable <-> WF470	113	39,- €

PG-ISO-set

- Galvanic separation between PD/PC and PLC up to 1kV
- Contact-protected plastic housing
- Supply of the module from the PLC voltage 5V DC and/or 24V DC
- The SET contains a PG-UNI-Kabel (3m) Art.Nr:9359-3 and a PG-ISO-Adapter Art.Nr:9359-8
- Slide lock for firm grip on the PLC



Technical Specifications:

Supply voltage:	5V/DV und/oder 24V/DC
Power consumption:	0,3 watt
Display:	-
Interfaces:	to the PLC: TTY/20mA current loop (PG-COM passiv, PLC aktiv)
	to the PD/PC: RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	PG-UNI: 47 x 40 x 15 mm / PG-ISO-Adapter: 50 x 45 x 15 mm
Commercial data:	
EAN number:	4260363240604
HS-code:	85444290
Weight:	0.2000 kg

Galvanic coupling to the S5-PLC (CPU-assemblies 15pin)



You have to configure a galvanic isolated connection to a S5-PLC? No problem, connect the PG-ISO-set (PG-UNI-cable + PG-ISO-adapter) to the PLC and PC, and now you're Online connected to the PLC. And all without earth-relation between PLC and PC.

article:		
Art. ID.	name	price
9359-S	PG-ISO-SET 3m Interface cable set with galvanic separation between PC and PLC up to 1000V	139,- €
9359-S.05M	PG-ISO-SET 5m Interface cable set with galvanic separation between PC and PLC up to 1000V	159,- €
9359-S.10M	PG-ISO-SET 10m Interface cable set with galvanic separation between PC and PLC up to 1000V	179,- €

accessories:			
Art. ID.	name	page	price
9359-9.M	Adapter COM 1 : COM2 25pin (male) - 9pin (female)	122	17,- €
9359-9	Adapter COM 1 : COM2 9pin (male) - 25pin (female)	122	17,- €
9359-5-150	AG-150-adapter for PG-UNI + PG-UNI-II-cable to AG-150	109	39,- €
9359-5	CP-525-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525	110	39,- €
9359-5K	CP-525-K-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	111	39,- €
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	111	59,- €
9359-MAX233	RS232 / V24 chip for interface cable	123	5,- €
9359-6	SINUM-adapter for PG-UNI + PG-UNI-II-cable to SINUMERIK	112	39,- €
9359-5-WF470	WF-470-adapter for PG-UNI + PG-UNI-II-cable <-> WF470	113	39,- €
9310	Additional charge 25-pins PC-plug special construction of the RS232-side		10,- €

Other interface cables

Your advantage of use PI-interface cables:

- Extensive cable and adapter program
in our inventory is a extensive cable and adapter program available for you, even for special connections we have a solution for you
- Simple handling
for most interconnections no external power is required
- Easy maintenance
our free technical hotline is available with help and advice for you
- Function reliability
each cable is manufactured and tested according to quality guidelines in Germany
- Function guarantee
each cable is tested with a special cable tester on all connections and connected to PLC to test online features
- CE and EMV reliability
all cables are certified by effective directives



Commercial data:

EAN number:	4260363241571
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	23,- €
9359.AF	monkey-swing PD-interface CP <=> PD-interface PLC (needed with H1, L1 or L2-bus)	49,- €
9359.AB	PLC-connecting cable PC <-> Allen-Bradley	28,- €
9359-90	CP-cable connects PD-TTYport of TP-I, TP-II with L1,H1,L2-CP, D-Sub 15pin (male) <=> D-Sub 15pin (male)	49,- €
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	10,- €
9359.0	Null-modem-cable 9-pin D-SUB D-SUB 9pins (female) <=> D-Sub 9pins (female), rotated assignment (null modem)	23,- €
9359.OP	OP-Programming cable to PC 3m serial programming cable for panels, D-Sub 9pins (female) <=> 15pins (male)	49,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	10,- €
9359.PC-PCS	PCS-cable for PC for Lauer-operator devices, length: 3m D-Sub 9pol. (female) <=> D-Sub 25pol. (male)	38,- €
9359.PCS	PCS-cable for TP-I or TP-II for Lauer-operator devices, length: 3m D-Sub 9pol. (male) <=> D-Sub 25pol. (male)	38,- €
9359-91	PG-685-cable 5m replacement cable for PD-685 to S5-PLC, D-Sub 25pin (male) <=> D-Sub 15pin (male)	49,- €
9359.7XX	PG-7XX-cable 5m	59,- €
9359-MAX233	RS232 / V24 chip for interfacecable	5,- €
9352-RS232ANS7	RS232 to S7-PLC Serial ASCII-data in/out DB of S7-PLC	590,- €
9359.M	SC-09 cable 3m for Mitsubishi RS232 <-> RS485	102,- €
9359-1-RS232	USB-Serial-converter cable 3m USB <=> RS-232	125,- €
9359-V24	V24-adapter generates a PLC-V24-interface out of the PLC-TTY- interface, ideal for Tele-Link and S5-Diag	51,- €
9380-9S	Connecting cable TELE-Book on Slot-PLC from Siemens	51,- €

OP-programming cable

- Connect a Siemens Panel (15pin RS232 interface) with a PC
- Screws and slide lock for fixing
- 15pin (male) - 9pin (female)
- Length: 3 m



Commercial data:

EAN number:	4260363243216
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.OP	OP-Programming cable to PC 3m serial programming cable for panels, D-Sub 9pins (female) <=> 15pins (male)	49,- €

TD-OP-cable

- Connection of a Siemens S5-Panel (15pin TTYinterface) with a S5-PLC
- Substitute to 6XV1440-2AH32 (from Siemens)
- Slide lock for cable-fixing
- 15pin (male) - 15pin (male)
- Length: 3 m



Commercial data:

EAN number:	4260363240901
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.TD-OP	Connecting cable TD/OP to PLC (TTY) length: 3.2m substitute for 6XV1440-2AH32	59,- €

PG685 cable

- 15pin D-Sub PLC connectivity via 25-pin D-sub PG685
- Supply from the PLC over the 5V power supply
- The transducer electronics are fully integrated in the cable
- Length: 3 m



Commercial data:

EAN number:	4260363241588
HS-code:	85444290

article:		
Art. ID.	name	price
9359-91	PG-685-cable 5m replacement cable for PD-685 to S5-PLC, D-Sub 25pin (male) <=> D-Sub 15pin (male)	49,- €

SC-09 cable

- PLC connectivity via 25-pin D-sub or mini-DIN (special adapter)
- Supply from the PLC over the 5V power supply
- The transducer electronics are fully integrated in the cable
- Length: 3 m



Commercial data:

EAN number:	4260363241908
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.M	SC-09 cable 3m for Mitsubishi RS232 <-> RS485	102,- €

Memory modules / Prommer

- Robust steel plate case (programming devices)
- Applicable for use as a desktop unit (programming device)
- Easy handling and therefore quick on-site operation
- Replacement for already discontinued original products



Mini-Prommer-III



Flash-Prommer-II-MMC



Multi-Prommer

Supported formats			Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7
Binäryfile *.BIN			✓	✓	✓	✓	✓	✓
Step-5 file *.S5D			✓	✓	✓	✓	✓	✓
Step-7 file(structur) *.S7P			✓	✓	✓	✓	✓	✓
ET-100 files *.308			✓		✓		✓	
ET-200 files *ET200			✓		✓		✓	
ET2-Binäryxport *.2BF			✓		✓		✓	
Intel-Hex-format *.HEX			✓		✓		✓	
Motorola-Hex-format *.EPR			✓		✓		✓	
CP-525/524 files *.525			✓		✓		✓	
CP-5431-files Q*.*			✓		✓		✓	
CP-1430/CP-143-files A*.*			✓		✓		✓	
Module type	Storage type	Slot						
2532	UV, NMOS	DIL-Socket					✓	
27128	UV, NMOS	DIL-Socket	✓				✓	
2732A	UV, NMOS	DIL-Socket	✓				✓	
2764	UV, NMOS	DIL-Socket	✓				✓	
27C010	UV, CMOS	DIL-Socket	✓				✓	
27C1001	UV, CMOS	DIL-Socket	✓				✓	
27C128	UV, CMOS	DIL-Socket	✓				✓	
2716BQ	UV, CMOS	DIL-Socket	✓				✓	
27C200	UV, CMOS	DIL-Socket	✓				✓	
27C256	UV, CMOS	DIL-Socket	✓				✓	
27C400	UV, CMOS	DIL-Socket	✓				✓	
27C512	UV, CMOS	DIL-Socket	✓				✓	
27C64A	UV, CMOS	DIL-Socket	✓				✓	
27C080	UV, CMOS	DIL-Socket	✓				✓	
27C801	UV, CMOS	DIL-Socket	✓				✓	
28F010	FLASH	DIL-Socket						
29F010	FLASH	DIL-Socket	✓				✓	
370-0AA41	UV, CMOS	VG-strip	✓ (only reading)				✓ (only reading)	

Modultyp	Speichertyp	Steckplatz	Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7
372-0AA51	UV, NMOS	VG-strip	✓ (only reading)				✓ (only reading)	
372-0AA61	UV, NMOS	VG-strip	✓ (only reading)				✓ (only reading)	
373-0AA21	UV, NMOS	VG-strip	✓				✓	
373-0AA41	UV, NMOS	VG-strip	✓ (ab V1.5)				✓	
373-0AA61	UV, NMOS	VG-strip	✓ (ab V1.5)				✓	
373-0AA81	UV, CMOS	VG-strip	✓ (ab V1.5)				✓	
373-1AA41	UV, CMOS	VG-strip	✓				✓	
373-1AA61	UV, CMOS	VG-strip	✓				✓	
373-1AA81	UV, CMOS	VG-strip	✓				✓	
374-1FG11	FLASH	PCMCIA			✓		✓ (ab V3.15)	
374-1FH11	FLASH	PCMCIA			✓		✓ (ab BS3.E)	
374-1FH21	FLASH	PCMCIA			✓		✓	
374-1KG11	FLASH	PCMCIA			✓		✓	
374-1KJ11	FLASH	PCMCIA			✓		✓	
374-1KH21	FLASH	PCMCIA			✓		✓	
374-1KK21	FLASH	PCMCIA			✓		✓	
374-2FH21	FLASH	PCMCIA			✓		✓	
374-2KG21	FLASH	PCMCIA			✓		✓	
374-2KH21	FLASH	PCMCIA			✓		✓	
374-2KK21	FLASH	PCMCIA			✓		✓	
374-2KL21	FLASH	PCMCIA			✓		✓	
375-0LA11	UV, NMOS	VG-strip	✓				✓	
375-0LA15	UV, NMOS	VG-strip	✓				✓	
375-0LA21	UV, NMOS	VG-strip	✓				✓	
375-0LA41	UV, NMOS	VG-strip	✓				✓	
375-0LA61	UV, CMOS	VG-strip	✓ (ab V1.5)				✓	
375-0LA71	UV, CMOS	VG-strip	✓				✓	
375-0LC11	EEPROM	VG-strip	✓				✓	
375-0LC15	EEPROM	VG-strip	✓				✓	
375-0LC21	EEPROM	VG-strip	✓				✓	
375-0LC31	EEPROM	VG-strip	✓				✓	
375-0LC41	EEPROM	VG-strip	✓				✓	
375-0LC61	EEPROM	VG-strip	✓				✓	
375-1LA15	UV, CMOS	VG-strip	✓				✓	
375-1LA21	UV, CMOS	VG-strip	✓				✓	
375-1LA41	UV, CMOS	VG-strip	✓ (ab V1.5)				✓	
375-1LA61	UV, CMOS	VG-strip	✓				✓	
375-1LA71	UV, CMOS	VG-strip	✓				✓	
375-8LA11	UV, CMOS	VG-strip	✓				✓	
375-8LA12	FLASH	VG-strip	✓ (ab V1.6)				✓	
375-8LC11	EEPROM	VG-strip	✓				✓	
375-8LC21	EEPROM	VG-strip	✓				✓	

Modultyp	Speichertyp	Steckplatz	Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7
375-TPA1	EEPROM	VG-strip	✓ (ab V1.5)				✓	
376-0AA11	UV, NMOS	VG-strip	✓				✓	
376-0AA21	UV, NMOS	VG-strip	✓				✓	
376-0AA31	UV, CMOS	VG-strip	✓				✓	
376-1AA11	UV, CMOS	VG-strip	✓				✓	
376-1AA21	UV, CMOS	VG-strip	✓ (ab V1.5)				✓	
376-1AA31	UV, CMOS	VG-strip	✓				✓	
6FX1126-0B !Number has to be the same!	UV, CMOS	VG-strip	✓				✓	
6FX1128-4B !Number has to be the same! Don't confuse with 6FX1128-4BB10, there is no compatibility!	UV, CMOS	VG-strip	✓				✓	
6FX1130-5B !Number has to be the same!	UV, CMOS	VG-strip	✓				✓	
910-0AA31	UV, NMOS	VG-strip	✓ (only reading)				✓ (only reading)	
910-0AA41	UV, NMOS	VG-strip	✓ (only reading)				✓ (only reading)	
951-0FD00	FLASH	PCMCIA			✓		✓	
951-0KD00	FLASH	PCMCIA			✓		✓	
951-0KD80	FLASH	PCMCIA			✓		✓	
951-0KE00	FLASH	PCMCIA			✓		✓	
951-0KE80	FLASH	PCMCIA			✓		✓	
951-0KF00	FLASH	PCMCIA			✓		✓	
951-0KF80	FLASH	PCMCIA			✓		✓	
951-0KG00	FLASH	PCMCIA			✓		✓	
951-0KJ00	FLASH	PCMCIA			✓		✓	
951-1KH00	FLASH	PCMCIA			✓		✓	
951-1KK00	FLASH	PCMCIA			✓		✓	
951-1KM00	FLASH	PCMCIA			✓		✓	
952-0KD00	FLASH	PCMCIA			✓		✓	
952-0KE00	FLASH	PCMCIA			✓		✓	
952-0KF00	FLASH	PCMCIA			✓		✓	
952-0KG00	FLASH	PCMCIA			✓		✓	
952-0KH00	FLASH	PCMCIA			✓		✓	
952-1KK00	FLASH	PCMCIA			✓		✓	
952-1KL00	FLASH	PCMCIA			✓		✓	
952-1KM00	FLASH	PCMCIA			✓		✓	
A1SMCY_8KP	UV, CMOS	DIL-Sockel	✓				✓	
FX_EEPROM4	UV, CMOS	DIL-Sockel	✓				✓	
FX_EPROM_8	UV, CMOS	DIL-Sockel	✓				✓	

27C1000 isn't compatible with 27C1001 (pinning)

2716 can't be implemented

Memory-modules



Your Advantages by using our PC memory modules:

- Simple Handling
the programming number is identical with the Siemens programming number
- Secure Handling
each module has a label with its type and programming number
- Reduced risk to use the wrong module by mistake
module with 21 V = black written labels – modules with -12,5 V = red written labels
- Reliable and secure viability
each module is produced and verified according to German Quality-Standards
- Guaranteed viability
each module has to pass a PLC – write and read test
- Guaranteed Safeness through mark of conformity (CE) and electromagnetic compatibility mark (EMC)
all of our modules comply with the current regulations

Commercial data:

EAN number:	4260363240437
HS-code:	85423255
Weight:	0.1000 kg

article:		
Art. ID.	name	price
375-8LC11	EEPROM module 2KByte for S90 not RoHs-compliant	65,- €
375-8LC21	EEPROM module 8KByte for S90 not RoHs-compliant	95,- €
375-OLC21	EEPROM module for S95-S115 2/4KByte - not RoHs-compliant	65,- €
375-OLC41	EEPROM module for S95-S115 8/16KByte - not RoHs-compliant	95,- €
375-OLC41X	EEPROM module for S95-S115 8/16KByte with PLC-write protection - not RoHs-compliant	105,- €
375-1LA15	EPROM module 8KByte for S95-S115 not RoHs-compliant	34,- €
375-OLA15	EPROM module 8KByte for S95-S115 not RoHs-compliant	34,- €
375-1LA21	EPROM module 16KByte for S95-S115 not RoHs-compliant	66,- €
375-1LA41	EPROM module 32KByte for S95-S115 not RoHs-compliant	102,- €
375-1LA61	EPROM module 64KByte for S95-S115 not RoHs-compliant	152,- €
375-1LA71	EPROM module 128KByte for S95-S115 not RoHs-compliant	305,- €
375-OLA21	EPROM module 16KByte for S95-S115 not RoHs-compliant	66,- €
373-OAA41	EPROM module 16KWords for S135-S155 not RoHs-compliant	99,- €
373-1AA41	EPROM module 16KWords for S135-S155 not RoHs-compliant	99,- €
375-OLA41	EPROM module 32KByte for S95-S115 not RoHs-compliant	102,- €
373-OAA61	EPROM module 32KWords for S135-S155 not RoHs-compliant	125,- €
373-1AA61	EPROM module 32KWords for S135-S155 not RoHs-compliant	125,- €
373-OAA81	EPROM module 64KWords for S135-S155 not RoHs-compliant	245,- €
373-1AA81	EPROM module 64KWords for S135-S155 not RoHs-compliant	245,- €
375-8LA11	EPROM module 8KByte for S90 not RoHs-compliant	38,- €
376-1AA11	EPROM module short 12,5V 8KWords for S135-S155 - not RoHs-compliant	69,- €
376-1AA21	EPROM module short 12,5V 16KWords for S135-S155 - not RoHs-compliant	83,- €

article:		
Art. ID.	name	price
376-OAA21	EPROM module short 21V 16KWords for S135-S115 - not RoHs-compliant	83,- €
376-OAA31	EPROM module short 21V 32KWords for S135-S155 - not RoHs-compliant	103,- €
375-8LA12	FLASH-EPROM 8KByte for S90 not RoHs-compliant	38,- €
951-0KD00-OAA0	Flash memory card 16KByte for S7 short not RoHs-compliant	64,- €
951-0KE00-OAA0	Flash memory card 32KByte for S7 short not RoHs-compliant	95,- €
951-0KF00-OAA0	Flash memory card 64KByte for S7 short not RoHs-compliant	126,- €
952-0KF00-OAA0	Flash memory card 64KByte for S7-400 long not RoHs-compliant	125,- €
951-0KG00-OAA0	Flash memory card 128KByte for S7 short not RoHs-compliant	189,- €
374-2FH21	Flash memory card 256KByte long not RoHs-compliant	296,- €
951-0KJ00-OAA0	Flash memory card 512KByte for S7 short not RoHs-compliant	274,- €
375-OLD11	RAM module 8KByte for S95-S115 not RoHs-compliant	107,- €
377-OAA11	RAM module short series 377 16KByte for S135-S155 - not RoHs-compliant	135,- €
377-OAA21	RAM module short series 377 32KByte for S135-S155 - not RoHs-compliant	219,- €
377-OAA32	RAM module short series 377 64KByte for S135-S155 - not RoHs-compliant	290,- €
377-OAA41	RAM module short series 377 128KByte for S135-S155 - not RoHs-compliant	509,- €
377-OAB21	RAM module long series 377 32KByte for S135-S155 - not RoHs-compliant	195,- €
377-OAB31	RAM module long series 377 64KByte for S135-S155 - not RoHs-compliant	265,- €
377-OAB41	RAM module long series 377 128KByte for S135-S155 - not RoHs-compliant	508,- €

MULTI-PROMMER



- Fast access via serial interface
- All Siemens-S5-E(E)PROM memory modules can be read, written or deleted
- Are designed for rough industrial application
- Comfortable operation software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- Win7 only S5D-, S7P- and binary-files
- Very universal memory programming device
- Spacious and robust service bags optionally available
- Connecting cable, memory module library and a user-friendly PC program included in delivery

Technical Specifications:

Supply voltage:	230V/AC 50-60Hz (115V/AC optional)
Power consumption:	30 watt
Display:	-
Handling/Configuration:	WinPrommer-Software
Interfaces:	to the PD/PC: RS232 to any COM-Port parallel port for centronics-interface others: S5-memory modules S5-/S7-FlashCards Dual-In-Line-memory devices 24V/DV-output for UVL3
Operating temperature:	5 - 45°C
Case:	powder coated metal case
Dimensions:	245 x 47 x 187 mm

Commercial data:	
EAN number:	4260363240758
HS-code:	85389099
Weight:	2.2000 kg

article:		
Art. ID.	name	price
9363-2	MULTI-PROMMER programming device for S5/S7 memory-modules, Win7-support for S5D-, S7P- and binary-files	811,- €
9363-2-US	MULTI-PROMMER programming device 115VAC for S5/S7 memory-modules Win7-support for S5D-, S7P- and binary-files	867,- €

variant:		
Art. ID.	name	price
9363-2-USB-US	MULTI-PROMMER programming device 115VAC, USB-bundle for S5/S7 memory-modules Win7-support for S5D-, S7P- and binary-files inclusive USB-RS232-converter-cable	989,- €
9363-2-USB	MULTI-PROMMER programming device, USB-bundle for S5/S7 memory-modules, Win7-support for S5D-, S7P- and binary-files inclusive USB-RS232-converter-cable	929,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9363-13	PLCC32-adapter for MULTI-Prommer	128	225,- €
9363-7	Servicebag for MULTI-PROMMER	124	56,- €
9363-WIN7	Upgrade WinPromm-software for Win7 Upgrade of WinPromm 16-bit-version for Multi-Prommer, Mini-Prommer-III and Flash-Prommer-II/Flash-Prommer-II-MMC Provided formats: S5D, S7P and binary		49,- €

MINI-PROMMER-III

- Fast access via serial interface
- All Siemens-S5-E(E)PROM memory modules can be read, written or deleted
- Are designed for rough industrial application
- Comfortable operation software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- Win7 only S5D-, S7P- and binary-files
- Spacious and robust service bags optionally available
- Connecting cable, memory module library and a user-friendly PC program included in delivery



Technical Specifications:	
Supply voltage:	24V/DC +/- 20%
Power consumption:	8,2 watt
Display:	3 status-LEDs
Handling/Configuration:	WinPrommer-Software
Interfaces:	to the PD/PC: RS232 to any COM-Port (connected through)
	others: S5-memory modules
Operating temperature:	5 - 40°C
Case:	powder coated metal case
Dimensions:	80 x 45 x 130 mm

Commercial data:

EAN number:	4260363241441
HS-code:	85389099
Weight:	0.5000 kg

article:		
Art. ID.	name	price
9363-5	MINI-PROMMER III 24VDC Programming device for S5 memory-modules Win7-support for S5D- and binary-files	453,- €

variant:		
Art. ID.	name	price
9363-5-USB	MINI-PROMMER III 24VDC, USB-bundle Programming device for S5 memory-modules Win7-support for S5D- and binary-files inclusive USB-RS232-converter-cable	569,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9363-6	Servicebag MINI-PROMMER + FLASH-PROMMER	124	33,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9363-WIN7	Upgrade WinPromm-software for Win7 Upgrade of WinPromm 16-bit-version for Multi-Prommer, Mini-Prommer-III and Flash-Prommer-II/Flash-Prommer-II-MMC Provided formats: S5D, S7P and binary		49,- €

FLASH-PROMMER-II

- Quick access via serial interface or with USB-serial-converter (art.nr: 9359-1-232)
- Write, read, delete and compare
- For FlashCards and MMC-Card
- Designed for harsh industrial use
- Comfortable operation construction Software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- Win7 only S5D-, S7P- and binary-files
- Spacious and robust service bags available as an option

**Technical Specifications:**

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	LED for function and watchdog supervision
Handling/Configuration:	WinPrommer-Software
Interfaces:	to the PD/PC: RS232 to any COM-Port
	others: S5-/S7-FlashCards MMC-Cards (optional)
Operating temperature:	5 - 45°C
Case:	powder coated metal case
Dimensions:	130 x 80x 50mm

Commercial data:

EAN number:	4260363242400
HS-code:	85389099

article:		
Art. ID.	name	price
9363-8	FLASH-PROMMER-II 24VDC Programming device for Flashcards Win7-support for S5D-, S7P- and binary-files	453,- €
9363-8-MMC	FLASH-PROMMER-II-MMC 24VDC for Flashcards + MMC Win7-support for S5D-, S7P- and binary-files	548,- €

variant:		
Art. ID.	name	price
9363-8-MMC-USB	FLASH-PROMMER-II-MMC 24VDC, USB-bundle for Flashcards + MMC Win7-support for S5D-, S7P- and binary-files inclusive USB-RS232-converter-cable	669,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9363-6	Servicebag MINI-PROMMER + FLASH-PROMMER	124	33,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €
9363-WIN7	Upgrade WinPromm-software for Win7 Upgrade of WinPromm 16-bit-version for Multi-Prommer, Mini-Prommer-III and Flash-Prommer-II/Flash-Prommer-II-MMC Provided formats: S5D, S7P and binary		49,- €
9359-1-RS232	USB-Serial-converter cable 3m USB <=> RS-232	56	125,- €

EPROM-ERASER LG07

- Reliable erasing of EPROM-modules with UV-light
- erasing time adjustable up to 60min
- Are designed for rough industrial application

Technical Specifications:

Supply voltage:	230 V/AC 50-60Hz
Power consumption:	8 watt
Handling/Configuration:	turn switch for the time switch
Operating temperature:	5 - 40°C
Case:	anodised aluminium case
Dimensions:	90 x 80 x 240 mm



accessories:			
Art. ID.	name	page	price
9363-3-LAMPE	Replacement lamp for LG-07 UV-tube with G23-plug base	128	85,- €

EPROM-ERASER UVL3

- Reliable erasing of EPROM-modules with UV-light
- Erasing time adjustable up to 30min
- Are designed for rough industrial application

Technical Specifications:

Supply voltage:	24 V/DC +/- 20%
Power consumption:	8 watt
Handling/Configuration:	rotary switch for the clock timer
Operating temperature:	5 - 40°C
Case:	powder coated metal case
Dimensions:	85 x 50 x 160 mm



Commercial data:	
EAN number:	4260363241779
HS-code:	85394910
Weight:	0.7000 kg

article:		
Art. ID.	name	price
9363-3-B	EPROM-Eraser UVL3 24V miniature device as cap	169,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9363-4-LAMPE	Replacement lamp for UVL3 UV-tube with G4T5-plug	128	41,- €

PD-interface-multiplexer

You have to put an operating device or a text display into operation by connecting it to a PD-Interface?
Be prepared having to stick the plug into the device and out, over and over again!

The time has come to change that!

The PG-MUX makes it possible to operate simultaneously two devices at one PD-interface, regardless whether it is a programming device, a text display, an operating device or any other kind of connections with a PD-interface
PG-MUX is an independent communications processor, which multiplexes the PD-interface in real time

By this method you can for example operate two programming devices "ONLINE" at the same time.

PG-MUX-II family

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: S5-90U to 155U, AEG A 120 and A250, Bosch CL 200 and CL 300 and CL 400, Klöckner-Moeller PS3 and PS4-201, Mitsubishi FX- and A-series
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery

PG-MUX II for Siemens

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: S5-90, S5-95, S5-100-series, S5-115 (also CPU945), S5-135U-series and S5-155-series
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x AS511 (PD-protocol) / 1 x SINEC-L1-BUS (no master protocols, no cross traffic) + 1 x A S511
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC

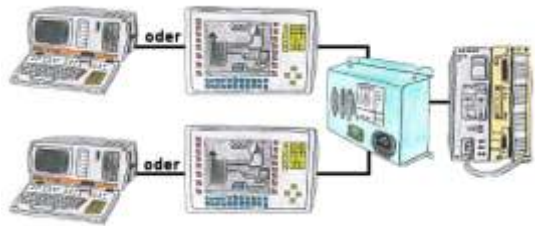
Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: TTY/20mA current loop (multiplexer active, PLC passiv) to the PD/PC: 2 PD x TTY/20mA current loop (multiplexer active, 100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 50 mm



Commercial data:	
EAN number:	4260363240840
HS-code:	85389099
Weight:	1.7000 kg

PD-interface of the S5-PLC already occupied (service device)



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect the Multiplexer one-time to the PLC and then connect the panel and also your PC to the Multiplexer. Now you can work parallel with the PLC without the need of affecting the operation of the panel. You can even work with 2 programming devices simultaneously, 2x open the same component, only changes which are stored last will be finally stored in the PLC. Also ideal for trainings purposes if PLC's are scare goods.

article:		
Art. ID.	name	price
9361-5	PG-MUX-II for SIEMENS-S5 with PLC-specific connecting cable to PLC and power cable	663,- €

variant:		
Art. ID.	name	price
9361-5-US	PG-MUX-II for SIEMENS-S5 115V version incl. connecting-cable to PLC	719,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-3	S5-connecting cable 3m for TELE-PROF, MINI/PG-MUX-II	129	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI/PG-MUX-II	129	43,- €
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI/PG-MUX-II	129	46,- €
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI/PG-MUX-II	129	56,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for Siemens (only 24V-device)

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: S5-90, S5-95, S5-100-series, S5-115 (also CPU945), S5-135U-series and S5-155-series
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x AS511 (PD-protocol) / 1 x SINEC-L1-BUS (no master protocols, no cross traffic) + 1 x A S511
- 3m cable for AG-connection included in delivery
- Power supply (instead of PG-MUX-II): only 24V DC



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: TTY/20mA current loop (multiplexer aktiv, PLC passiv) to the PD/PC: 2 PD x TTY/20mA current loop (multiplexer aktiv, 100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 135 x 35 mm

Commercial data:

EAN number:	4260363242981
HS-code:	85389099
Weight:	0.6000 kg

article:		
Art. ID.	name	price
9361-5-24V	PG-MUX-II for SIEMENS-S5 24V version incl. connecting-cable to PLC	663,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-3	S5-connecting cable 3m for TELE-PROF, MINI/PG-MUX-II	129	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI/PG-MUX-II	129	43,- €
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI/PG-MUX-II	129	46,- €
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI/PG-MUX-II	129	56,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for AEG

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: A120 and A250
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC



Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: RS-232 to the PD/PC: 2 PD x RS-232 (100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 50 mm

Commercial data:

EAN number:	4260363241465
HS-code:	85389099
Weight:	0.6000 kg

article:		
Art. ID.	name	price
9361-11	PG-MUX-II for AEG A120 + A250 with PLC-specific connecting cable to PLC and power cable	774,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for Bosch

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: CL 200, CL 300 and CL 400
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC



Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	<u>to the PLC:</u> RS-232 <u>to the PD/PC:</u> 2 PD x RS232 + TTY/20mA current loop (multiplexer aktive and passive usable, 100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 80 mm
Commercial data:	
EAN number:	4260363241410
HS-code:	85389099

article:		
Art. ID.	name	price
9361-12	PG-MUX-II for BOSCH BUEP19 / +E with PLC-specific connecting cable to PLC and power cable	774,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for Klöckner-Moeller PS3

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: PS 3 (no PS 4-201, this PLC has another hardware interfaces)
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC



Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	<u>to the PLC:</u> RS-485 <u>to the PD/PC:</u> 2 PD x RS-485 (100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 50 mm
Commercial data:	
EAN number:	4260363242424
HS-code:	85389099

article:		
Art. ID.	name	price
9361-13-PS3	PG-MUX-II for Klöckner-Möller for PS3 with PLC-specific connecting cable to PLC and power cable	774,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for Klöckner-Moeller PS4

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: PS 4-201 (no PS 3, this PLC has another hardware interfaces)
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC



Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: TTY/20mA current loop (multiplexer aktiv, PLC passiv) to the PD/PC: 2 PD x TTY/20mA current loop (multiplexer aktiv, 100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 50 mm
Commercial data:	
EAN number:	4260363241472
HS-code:	85389099

article:		
Art. ID.	name	price
9361-13-PS4	PG-MUX-II for Klöckner-Möller for PS4 with PLC-specific connecting cable to PLC and power cable	774,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

PG-MUX II for Mitsubishi

- Devices are advanced versions of the world widely used PG-MUX
- All connectors and controls on the front
- Permanent checking of the device functions and power supply => restart at failure
- Right away ONLINE with both interfaces to the PLC
- All PD functions can be accomplished parallel by 2 PD's
- Provided PLC's: FX- and A- series
- No additional or specific adapters are needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces of the relevant PLCs
- Capability of connecting on PD-side: 2 x PD's / 2x OP/Pannel / 1x PD + 1x OP/Pannel
- 3m cable for AG-connection included in delivery
- Possible power supply: 230V AC or 24V DC



Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: RS-485 with hand-shakes to the PD/PC: 2 PD x RS-485 with hand-shakes (100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 80 mm
Commercial data:	
EAN number:	4260363241489
HS-code:	85389099

article:		
Art. ID.	name	price
9361-14	PG-MUX-II for Mitsubishi FX + A-series with PLC-specific connecting cable to PLC and power cable	774,- €

accessories:

Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

MINI-MUX

- Is the Light-version of PG-MUX-II because of it's passive OP socket
- As an alternative we offer also a DIN-Rail Version
- All connectors and controls on the front
- All PD functions can be accomplished parallel to a text display by one PD
- Possible PLC's: S5-90, S5-95, S5-100-series, S5-115 (also CPU945), S5-135U-series and S5-155-series

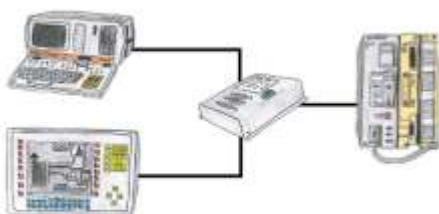


Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: TTY/20mA current loop (multiplexer aktiv, PLC passiv)
	to the PD/PC: PD TTY/20mA current loop (multiplexer aktiv, 100 % mechanically and electr. compatible)
	OP TTY/20mA current loop (multiplexer passiv, restricted to control panel function)
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 135 x 35 mm
Commercial data:	
EAN number:	4260363241205
HS-code:	85389099
Weight:	0.6500 kg



PD-interface of the S5-PLC already occupied (OEM-device)



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect the Multiplexer one-time to the PLC and then connect the panel and also your PC to the Multiplexer. Now you can work parallel with the PLC without the need of affecting the operation of the panel.

article:

Art. ID.	name	price
9361-1	MINI-MUX for S5 RK511 + L1 all cables optional	464,- €

accessories:

Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9391-MT	Mounting set for DIN-rail-holder	105	25,- €
9361-3	S5-connecting cable 3m for TELE-PROF, MINI/PG-MUX-II	129	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI/PG-MUX-II	129	43,- €
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI/PG-MUX-II	129	46,- €

accessories:			
Art. ID.	name	page	price
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI-PG-MUX-II	129	56,- €
9361-6	Servicebag for PG-MUX-II	124	59,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

T-Connector to PPI/MPI-Bus

- All connectors and controls on the front
- Secure supply of two devices that want to provide from the S7
- All PD functions can be accomplished parallel by 2 PD's
- No additional or specific adapters needed
- Connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces
- 3m cable for PLC-connection included in delivery



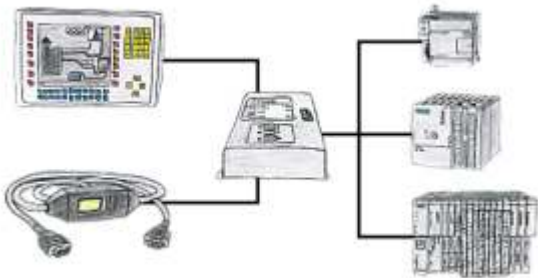
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	14 watt
Display:	LED for function and watchdog supervision
Interfaces:	to the PLC: 9 pol. plug for AG-connection
	to the PD/PC: 2 x 9 pol. jack for PD-connection
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 35 x 135 mm

Commercial data:

EAN number:	4260363240963
HS-code:	85389099

Doubling of PPI/MPI/Profibus-interface without bus-connector



Do you have a single control with panel in use and have to accomplish a little modification in the control program? No problem, plug the T-Connector on the PLC, the panel and PC to the device and then both participants can work with the PLC without annoying bus-cable tapering and interconnections.

article:			
Art. ID.	name	price	
9361-7	T-Connector to PPI / MPI-Bus doubling of PPI/MPI/Profibus-port without bus connector	143,- €	

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €

Diagnoses plug P-QT 10

- Can be attached to any Profibus-device
- Baud-rate settings via onboard rotary-switch. The automatic decoding of baud-rate is additionally supported
- External power-supply is not necessary, since the P-QT 10 is supplied directly from the Profibus-device
- Analyze all traffic and triggers of typical Profibus-specific errors:
 - Faulty telegrams
 - Telegram repetitions
 - Device-specific diagnostic messages
- States and errors are displayed via the two integrated LEDs green and red:
 - Continuous green: power supply OK, no data traffic detected
 - Quick blinking green: power supply OK data traffic active
 - Continuous red: detected faulty telegrams
 - Quick blinking red: detected telegram repetitions
 - Red blinking slowly: recognized diagnostic messages
- Potential-free alarm contact produces 1 second impulse when it detects a Profibus-error.



Technical Specifications:

Power consumption:	Max. 10 mA for 5 VDC +/- 5%
Baud-rate:	9 600 bit/sec up to 12 Mbit/sec variable baud-rate-adjustment with rotary-switch, reset-switch
Error detection	Faulty telegrams Telegram repetitions Device-specific diagnostic messages
Interfaces:	PROFIBUS DP RS485 (DB9) Potential-free alarm contact 24V/100mA
Power:	Ca. 8 mA for 5 Volt DC
Non-reactive measurement:	Yes
Display:	LED green LED red
Potential-free relay-contact:	24 VDC 100 mA
Temperature range:	0 - 50°C
Storage / transport:	-25°C up to +70°C
Humidity:	10% up to 75% non-condensing
Immunity:	DIN EN 55 024
Emission:	DIN EN 55 022
RoHS:	WEEE
Dimensions (LxWxH):	90,3 x 16 x 47,3mm

Commercial data:

EAN number:	4260363244213
HS-code:	84735020

article:		
Art. ID.	name	price
G-100167	Diagnosisplug P-QT 10 Profibus-quicktester, smallest Profibus analysis tool	420,- €
G-100167-7	Diagnosisplugset P-QT 10 with Horn Set with Profibus-quicktester, smallest Profibus analysis tool and horn, cable-length 1m, inclusive batteries	470,- €

accessories:		
Art. ID.	name	price
G-100167-5	Horn for P-QT 10 Horn for profibus-quicktester Cable-length 1m, inclusive batteries	50,- €

S5-DIAG

- Simple connect to the PLC via the PD-interface
- Troubleshooting without the need of programming one line
- Error report in a clear and plain way
- Signal recording possible
- Comfortable operation via function keys
- 2 languages selectable (German/English)
- Power supply from the PLC
- Optional power supply possible, in case PLC has no power sources



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3,5 watt
Display:	LCD-display
Handling/Configuration:	integrated keypad with function keys
Interfaces:	to the PLC: TTY/20mA current loop
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	187 x 110 x 49 mm

Commercial data:

EAN number:	4260363241823
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S5-PLC-diagnosis or signal's doesn't come, but why?



Your installation shows an error and the commissioning engineer isn't available? No problem, connect S5-DIAG with the PLC, enter reason of PLC's malfunction (e.g. O32.5 doesn't come) and the device lists the possibilities why the output has not been set. So you're able to figure out the problem (e.g. safety door not locked) quickly.

article:		
Art. ID.	name	price
9368	S5-DIAG Hand-held unit incl. connecting-cable	1253,- €

accessories:		
Art. ID.	name	page price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104 39,- €

other PLC accessories

Useful additional Hardware for your PLC

- robust steel plate case with mounting flange
- easy handling and therefore quick on-site operation
- replacement for already discontinued original products



PD- / PLC-Switcher

- Connecting mechanism, pin assignment and electrical data match the control's specifications
- Applicable with all original and compatible programming devices
- All connection- and operating controls frontal
- Supply from the PLC or external

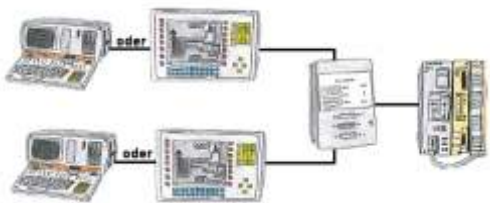
Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	1 watt
Display:	LED-display for aktiv port
Handling/Configuration:	toggle or rotary switch for port selection
Interfaces:	to the PLC: 1 / 2 / 4 x TTY/20mA current loop (switch passiv, PLC aktiv) to the PD/PC: 1 / 2 x TTY/20mA current loop (100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	EMC-dense metal case with mounting flange
Dimensions:	135 x 110 x 50 mm



Commercial data:	
EAN number:	4260363240208
HS-code:	85389099
Weight:	0.4000 kg

Interface switch for the S5



Interface-switch for PD/PC



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect a device of the PG-Switch-family one-time to the PLC and then connect the panel and also your PC to the device. With a toggle switch (PG-Switch-I) you select the pc or pannel to communciate with the PLC. The selection on a PG-Switch-II will be driven via the 24V-controll input. The PG-Switch-III has an automatic detection. The pannel is connected to the device and can communicate to the PLC. You connect your PD/PC to the device and it switches automatically, so you can communicate. After plug off the PD/PG the device switches back, so the pannel is connected to the PLC.

You have to work with more PLC-devices, but no pleasure to switch on/off? No problem, you connect a device of the AG-Switch-family to the PLC-devices and your PD/PC and you will be able to communicate to both PLCs. The selection which PLC you make for AG-Switch-I via toggle switch and for the AG-Switch-II via 24V-controll input.

article:		
Art. ID.	name	price
9360.A	AG-SWITCH PD-/PLC-switcher	89,- €
9360.A-4	AG-SWITCH 4-times PD-/PLC-switcher	296,- €
9360.A-2	AG-SWITCH II PD-/PLC-switcher	129,- €
9360	PG-SWITCH PD- / PLC-switcher	89,- €
9360-2	PG-SWITCH II PD- / PLC-switcher	129,- €
9360-3	PG-SWITCH III PD- / PLC-switcher	129,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €

iBx-Busterminal

- No bus terminal resistor necessary
- LEDs for controlling the data stream on the IBX-bus
- All connection- and operating controls frontal
- LWL-adapter available as an option

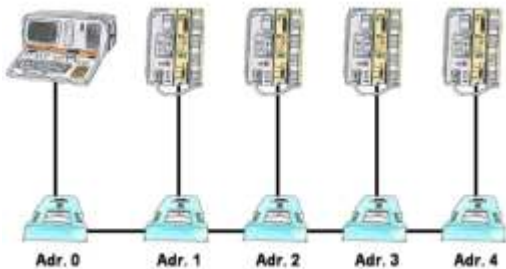
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	4 status-LEDs
Handling/Configuration:	DIP-Switch for address Configuration
Interfaces:	to the AG and PD/PC: TTY/20mA current loop (iBx-Klemme aktiv, PLC passiv)
	others: 10 x screw type terminal for bus connection A and B 2 x screw type terminal for 24V/DC power supply
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	97 x 149 x 36 mm

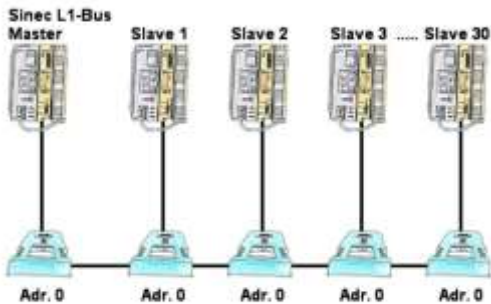
Commercial data:

EAN number:	4260363240161
HS-code:	85389099
Weight:	0.5000 kg



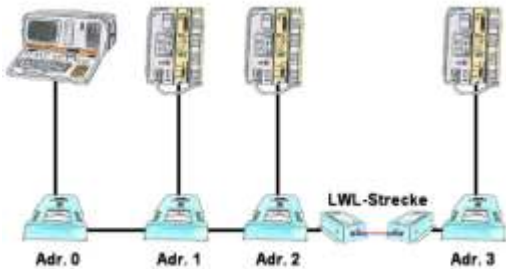


You have to link several S5-PLC's so that in case of need you can respond to all of them without modifying the PLC-program? No problem, connect all PLC's that are in the run with the IBX-Klemme, set up the respective address (1 to 30) at the IBX-Klemme and with the address 0 you will be able to respond to all PLC's via PD-bus-path selection.



You have to configure a Sinec-L1-bus, own the master, but there's no BT-777-busterminal to buy? No problem, connect the IBX-Klemme to every S5-PLC that is in the run via the optional IBX-SPS-cable, supply every IBX-Klemme with ext. 24V DC if the PLC is not able to provide it, set-up the address 0 and define the actual L1-bus-address in the PLC. Now your master can communicate with the slave-assemblies.

Longer distances for L1-Bus



You need for your L1-Bus higher distance like the possible 1200m? You have strong disturbance on your L1-Bus? You need a serial line for higher distances and this galvanic decoupled? No problem, all this points are solved through the LWL-adaptor. They are available for artificial and optical fibre, for L1-Bus and RS232.

article:		
Art. ID.	name	price
9530	iBx-Busterminal intelligent bus terminal, substitute for BT-777-terminal, optional PLC-connecting cable	177,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9429	DUP-TEXT-Display DUPLINE Pannel for the Dup-Line-bus		1002,- €
9530-9S	iBx-SPS-cable to PLC 3m one side angled, other side straight cable tap	128	38,- €
9530-9WS	iBx-SPS-cable to PLC 3m bothsides 45° angle	128	38,- €
9531-K	Light wire-adapter for plasticfibre-cables	116	173,- €
9531-G	Light wire-adapter for glasfibre-cables		198,- €
9532-K	Light wire-adapter RS232 for plasticfibre-cables	116	690,- €
9428	S5-DUP-Interface card		1202,- €
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	108	49,- €

UNI-COM

- 100% galvanic separation of the interfaces up to 1000V
- Available in 6 different models
- Baud rate up to 38,4 kBd
- 4 LEDs to control the data flow
- Interface configuration printed on a label on the front



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	4 watt
Display:	4 status-LEDs
Handling/Configuration:	-
Interfaces:	others: 2 x D-Sub-female 9pol 3 x screw type terminal for 24V/DC power supply 18 x screw type terminal for bus connection A and B
Operating temperature:	5 – 55°C
Case:	EMC-dense powder coated metal case with mounting flange
Dimensions:	170 x 125 x 40 mm
Commercial data:	
EAN number:	4260363241830
HS-code:	85389099

Interface accommodation with galvanic decoupling



You have to connect two devices with different hardware-interfaces? No problem, with the devices of the UNICOM-familiy you will be able to couple both interfaces and get additional a galvanic decoupling up to 1000V.

article:		
Art. ID.	name	price
9505-3	UNI-COM II RS422 <=> RS232 isolated level conversion up to 1000V for RS232 <=> RS422	187,- €
9505-1	UNI-COM II SINEC-L1 <=> RS232 isolated level conversion up to 1000V for L1-BUS <=> RS232	199,- €
9505-2	UNI-COM II TTY <=> RS232 isolated level conversion up to 1000V for TTY <=> RS232	187,- €
9505-4	UNI-COM II TTY <=> RS422 isolated level conversion up to 1000V for TTY <=> RS422	199,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9505-K	RS-232-cable for UNI-COM II PC <=> UNI COM II (RS232 side)		28,- €

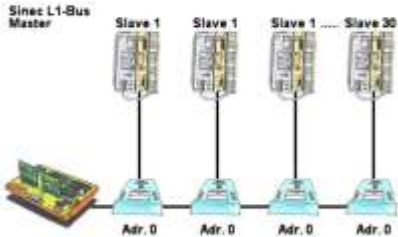
L1-Controller

- Computers have an optional possibility of attendance, as Master or Slave, on Sinec-L1-bus
- The interfaces of the L1 controllers are with plug-in modules (RS232, RS422, TTY, L1-bus) customizable
- Easy data exchange with the L1-Bus-Controller via ASCII protocol
- Autarkic implementation of the controller's L1-Bus functions, also without computer performance
- Settings for diverse baud rates and modes
- Status display for preset modes, errors and specifications



Technical Specifications:	
Supply voltage:	5V/DC +/- 20%
Power consumption:	-
Display:	2 x 7-segment display
Handling/Configuration:	DIP-Switch
Interfaces:	others:
	1 x D-Sub-female 9pol for PC connection
	3 x Weidmüller for 5V/DC power supply
Operating temperature:	9 x Weidmüller for bus connection A and B
	5 – 55°C
Case:	plastic case
Dimensions:	160 x 100 x 50 mm
Commercial data:	
EAN number:	4260363240116
HS-code:	85389099

Sinec-L1-bus without master (CP530)



You have a running Sinec-L1-bus and your master the CP530 is defective or rather broke down and the bus has to continue running? No problem, connect the L1-controller to the according bus-modules instead of the CP530, define the circulation list of the clients and the L1-bus continues running immediately

article:		
Art. ID.	name	price
9510	L1-BUS Controller DIN-rail-holder for 5VDC without plug-in module	660,- €
9510-F	L1-BUS Controller DIN-rail-holder Flash-version for 5VDC without plug-in module, configuration locked in the flash memory	711,- €
9511	L1-BUS Controller Desktop Device for 5VDC without plug-in module	711,- €
9511-F	L1-BUS Controller Desktop Device Flash-version for 5VDC without plug-in module, configuration locked in the flash memory	762,- €

accessories:		
Art. ID.	name	price
9520	L1-Bus-module Interface module for the L1-Controller	38,- €
9521	RS-232-module Interface module for the L1-Controller	23,- €
9522	RS-422-module Interface module for the L1-Controller	23,- €
9523	TTY-20mA-module Interface module for the L1-Controller	33,- €

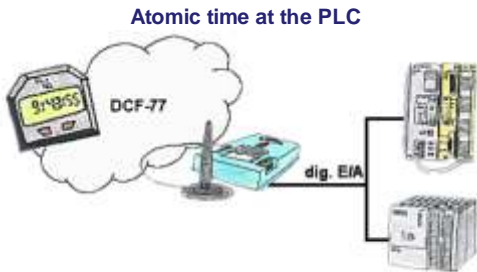
PLC-clock

- Transfer of DCF-time and date to the PLC
- Representation in sec, min, h, day, month, year, weekday
- Statusbits for summer-, wintertime , DCF-OK, etc.
- 4 LEDs for displaying power supply, mode and DCF-Signal

Technical Specifications:	
Supply voltage:	24V/DC +/- 20%
Power consumption:	3 watt
Display:	4 status-LEDs
Handling/Configuration:	DIP-Switch
Interfaces:	to the PLC:
	5 x screw type terminal for E/A-inputs
	5 x screw type terminal for E/A-outputs
Operating temperature:	others:
	2 x screw type terminal for 24V/DC power supply
Case:	15pol female for DCF77-antenna connection
Dimensions:	5 - 55°C
	powder coated metal case with mounting flange
	97 x 149 x 36 mm



Commercial data:	
EAN number:	4260363240574
HS-code:	85389099
Weight:	0.5000 kg



For your production flow you're always in need of an exact time? No problem, connect the SPS-Clock with 4 digital in/outputs of your PLC, after synchronisation of the SPS-Clock the updating time can be read in a DB of the PLC.

article:		
Art. ID.	name	price
9366	DCF-77-antenna cable length 5m for connecting to SPS-Clock	51,- €
9365	SPS-CLOCK atomic time to digital I/O of PLC	251,- €
9366-1	Amplifier for DCF-antenna processing of the DCF-77-signal for longer distances between antenna and SPS-Clock	77,- €

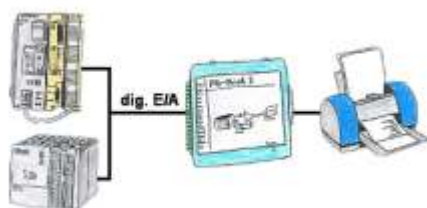
accessories:		
Art. ID.	name	page price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104 39,- €

PG-PRINT, PG-PRINT-III

- The PG-PRINT has to be connected to the normal PLC-I/O-level with a cable (not scope of the standard delivery) via 8 digital outputs and 1 digital input and the provided PLC-software installed in the S5-PLC
- Now db-contents (e.g. texts) can be easily passed on via bits and control words to any Centronics-printer (preferably EPSON-emulation in accordance with special characters)
- 3 additional signals (on demand) can query printer in error status (input), paper-out (input), and printer can be initialised (output)
- With this system you can accomplish e.g. faults and software-flow-controls well-priced
- The PG-PRINT-III is designed with a robust metal case and full 8-bit. The connecting cables are assembled on the case. An extensive software tool is included in delivery
- The PG-PRINT is designed with a plastic case and 7-bit
- He will be directly plugged on the Centronics-socket. The connecting cable to PLC is not included in delivery



Technical Specifications:	
Supply voltage:	24V/DC +/- 20%
Power consumption:	6 watt
Display:	LED for power supply
Interfaces:	to the PLC: 1 x phoenix plug for PLC-connection
	to the PD/PC: 1 x 25pin D-Sub-female for printer connection
	others: 1 x connection plug for 24V/DC power supply
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	109 x 107 x 34 mm
Commercial data:	
EAN number:	4260363240512
HS-code:	85389099



You need production data, circulation lists of your PLC's, but don't want to use a CP or don't get a serial printer anymore? No problem, you need 8 digital outputs and 3 digital inputs of the PLC, and if you connect the PG-Print at it you can generate these lists with a EPSON- or HP-compatible parallel printer.

article:		
Art. ID.	name	price
9364	PG-PRINT printing out of the PLC via dig. I/O	76,- €
9364-2	PG-Print III incl. PLC-software + cable	138,- €
9364-3	PG-PRINT-S5-softwaretools handling blocks for comfortable approach of the PG-Print	204,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	145	39,- €

KOR-MUX / TELE-Switch

- Compatible with MUX757 in KOR-MUX-mode
- Operation as TELE-Switch possible
- Ports (1-31) are cascable
- Up to 8 accessible slaves per COM-port of PC



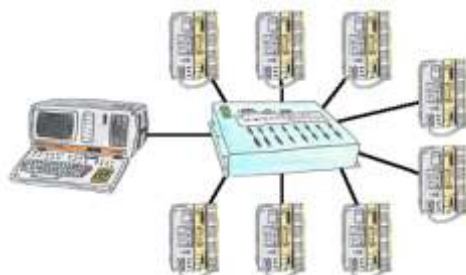
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	12 watt
Display:	8 LEDs for displaying the aktiv port
Handling/Configuration:	DIP-Switch for cascability of the ports and mode Configuration
Interfaces:	to the PLC: 8 x TTY/20mA current loop (100 % mechanically and electr. compatible) 8 x RS232: 9,6 KBd - 115,2 KBd / fully assigned
	to the PD/PC: 1 x TTY/20mA current loop (100 % mechanically and electr. compatible) 1 x RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	352 x 182 x 42 mm

Commercial data:

EAN number:	4260363241090
HS-code:	85389099

Many PLC-devices conflated



You have many PLC and you want to program them central on one place? No problem, you have to connect them all to the KOR/MUX-Tele-Switch an with the PD-bus-selection of your Step5-software you go ONLINE. Of course the KOR/MUX-Tele-Switch is cascable, so you can connect up to 30 PLCs to the devices.

article:		
Art. ID.	name	price
9370-KOR	KOR-MUX / TELE-SWITCH 8 devices (TTY/RS232) to 1 port (TTY/RS232), supports PD-path selection, also for TP-I, TP-II	652,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9359-90	CP-cable connects PD-TTYport of TP-I, TP-II with L1,H1,L2-CP, D-Sub 15pin (male) <=> D-Sub 15pin (male)	129	49,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €

16-times PC-Switch

- Cascading of the switches on 4 bits of the Centronics interface
- Serial and Centronics interface connected through
- Active port indicated by a LED



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Display:	16 LEDs for displaying the aktiv port
Handling/Configuration:	DIP-Switch for cascability of the Switches
Interfaces:	16 x RS232: 9,6 KBd - 115,2 KBd / fully assigned 1 x RS232 input: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC 1 x RS232 output: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the next switch 1 x Centronics input: for switch selection via 4 bit 1 x 25pin D-Sub output: for switch selection via 4 bit
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	352 x 182 x 42 mm

Commercial data:

EAN number:	4260363242592
HS-code:	85389099
Weight:	0.4000 kg

article:		
Art. ID.	name	price
9360-16	16-times-PC-SWITCH 16 devices (RS232) to one RS232-port, switching carried out by software and LPT-port	497,- €

accessories:			
Art. ID.	name	page	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	123	23,- €
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €

Analysis technic

- Very precise O2-measurement results
- Devices with (OSC-II) and without (OSM-HMG) measuring probe
- Adaptation of the measuring probes possible via probe offset
- Devices are designed for industrial application
- Continuous oxygen measuring by permanent running
- Collect measured variables via Ethernet/Wi-Fi (EtherSens)
- Access to measured variables via the Internet (EtherSens)
- Logging of measured values for production data acquisition (EtherSens)
- Several different sensors configurable in one unit (EtherSens)



EtherSens

- Devices are designed for industrial application
- Continuous measuring by permanent running
- Collect measured variables via Ethernet/Wi-Fi
- Access to measured variables via the Internet
- Logging of measured values for production data acquisition
- Several different sensors configurable in one unit
- Integrated web-server for configuration or display of variables
- Logging-data will be stored on microSD (with PC readable)
- Industrial 24V DC power supply



For following measured variables are sensors available:

Measured variable	Operating temperature	Range	Accuracy
Tilt / angle	0°C to +70°C	±90°	
	-40°C to +85°C	360°	±3%
	-25°C to +85°C	360°	0,04°
Pressure	-30°C to +125°C	0 to 600Bar	1 Bar
	-10°C to +80°C	1 to 200Bar	0,15% FS
	-20°C to +85°C	100mBar to 10 Bar	0,25% FS
	-20°C to +85°C	10mBar to 5 Bar	0,5% FS
	-25°C to +85°C	-1Bar to 10Bar	0,25%
Flow / liquid			
Aqueous media	+10°C to +50°C	2 uL/min to 5000 uL/min	< 1%
Hydrocarbon	+10°C to +50°C	0,025 to 80ml/min	< 1%
Flow / gas			
Air	-20°C to +70°C	0 to 200 cm³/min	±0,25%
Ambient air	-20°C to +80°C	0slm to 20slm	0,15%
N2	-20°C to +80°C	0slm to 20slm	0,15%
O2	-20°C to +80°C	0slm to 20slm	0,15%
N2O	-20°C to +80°C	0slm to 20slm	0,15%
AR or CO2	-20°C to +80°C	0slm to 20slm	0,15%
Humidity / temperature			
Humidity	-40°C to +100°C	0% to 100% rF	±0,1 %
Humidity	-20°C to +125°C	0% to 100% rF	±1,8%
Humidity	-20°C to +125°C	0% to 100% rF	±1,8%
Temperature	-40°C to +100°C	-30°C to +100°C	±0,1 %
Temperature	-20°C to +125°C	-20°C to +125°C	±0,2°C
Temperature	-20°C to +125°C	-20°C to +125°C	±0,2°C
IR / Proximity Sensor	-40°C to +85°C	1 to 50cm	
IR / Thermal profile	-40°C to +85°C	-70°C to 300°C	16Bit
Acceleration	-40°C to +85°C	-8g to +8g	±1%
Gas			
CO	-20°C to + 50°C	0ppm to 1000ppm	1ppm
CO2	-20°C to + 60°C	0% to 100%vol	1%
Compass	-20°C to +70°C	360°	0,5°
Brightness	-30°C to +70°C	4 to 129 Lux	0,4%

Do you lack a measure values?
Then please contact us, there is a solution for everything.

OSM-HMG

- Display of oxygen in %
- Metering range 0 - 100% oxygen
- Handily use because of battery operation
- For external OSM-sensor
- Pin assignment of the DIN-sockets on the label
- Zero compensation and slope balance via Potis
- Resolution of the metering range in 0,1% steps
- Accuracy over total metering range +/- 1%
- Output voltage proportional to the aligned measured value of 0 - 1V



Technical Specifications:

Supply voltage:	9V/DC battery block integrated 12 - 24V/DC charging voltage
Power consumption:	0,8 watt
Display:	LCD-display / 13mm / 3,5-digit LED for charge control
Handling/Configuration:	on-/off-switch 2 x poti
Interfaces:	4pol DIN-female for sensor connection 5pol DIN-female for test port jack bush for charging cable
Operating temperature:	5 - 55°C
Case:	plastic case (black)
Dimensions:	195 x 100 x 40 mm

Commercial data:

EAN number:	4260363241359
HS-code:	90271010

Easy handily oxygen display



You need the concentration of oxygen in your neighborhood? No problem, with the mobile HMG you can determine the concentration from 1 up to 100% with a exactness of 1% (dependend on your sensor).

article:		
Art. ID.	name	price
9101.9	OSM-HMG hand measuring instrument for external OSM sensor	404,- €
9101.2	OSM sensor Plum - O2 - Cell	151,- €

Oxygen - Service - Controller II

- Integrated zirconium probe
- High metering precesion
- Automatic switch of range %, ppm, E-xx
- High resolution of the display areas
- Integrated switchable pump
- Integrated flowmeter with regulating valve 0 - 10 l/h
- Probe offset with known O2-content of test gas possible
- Free adjustable limit values for the relay outputs
- Configurations are code protected against accidental modifications
- Configurations are stored with mains failure protection



Technical Specifications:

Supply voltage:	230V/AC 50Hz
Power consumption:	200 watt
Display:	illuminated, detailed graphics display (70 x 35 mm) 5 LEDs (power, heating, relay outputs)
Handling/Configuration:	integrated keypad
Interfaces:	1 x analogue outputs: 0/4 - 20mA 3 x digital outputs: 230V / 2A 2 x sample gas connection 4mm VA-pipe (in-/outputs) 1 x D-Sub-female for RS232/422(optional)
Operating temperature:	
Case:	metal case in the versions (19"-slot / table device / service carrying case)
Dimensions:	19"-slot: 440 x 370 x 135 mm table device: 360 x 350 x 150 mm service carrying Case: 360 x 350 x 150 mm

Commercial data:

EAN number:	4260363242011
HS-code:	90271010
Weight:	5.4000 kg

Oxygen analysis in industrial gases



Documentation of oxygen concentration



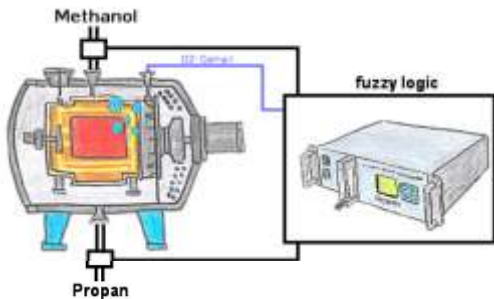
You need a continuous measurement of the concentration of oxygen without any configuration of the device or a switch of range of measurement? No problem, with the OSC-II-devices you are right. It shows you the concentration from % down to E -24 without any action from you. It switches automatically the range of measurement.

The integrated current output issues the actual concentration in the range of 0/4 - 20mA via free definable limits.

Free definable limits



Fuzzy controller with the OSC-II



You need some limits? No problem, with the OSC-II-devices you will be able to define 3 relay outputs (toggle switch) like UG (down level) or OG (top level) or as a ready-flag (internal probe has working temperature).

Through 3 free configurable limits (of each kind) you won't be able to realize a fuzzy-controller of your heat treatment furnace.

article:		
Art. ID.	name	price
9110.1	OSC-II 19" Rack Device OxygenServiceController 100% - 10E-24%	4090,- €
9110.3	OSC-II Service-portable-set OxygenServiceController 100% - 10E-24%	4397,- €
9110.2	OSC-II Desktop Device OxygenServiceController 100% - 10E-24%	4295,- €
9110.0	OSC-II Wallcase Without probe, pump and mass-flow-controller	2556,- €
9110.4	OSC-II Z-Box External device with probe, pump and mass-flow-controller. Connection to wallcase with thermocouple extension wire recommended	2590,- €

options:		
Art. ID.	name	price
9101-RS232	Mesaurement data output via RS232 Cyclic output of measurement data O2-content, temperature and EMK in ASCII-format via V24-port	490,- €

PLC-software-tools

- Easy handling and therefore quick on-site operation
- One software release for all operating systems from Win98 to Vista
- Testable as demo version without installation on the hard drive



MS-DOS

- Backup of the PLC-programs for data protection
- Simple restoring of the made backup

Commercial data:

EAN number:	4260363241748
HS-code:	85234999



article:		
Art. ID.	name	price
9650	SPS-Data safety S5-BACKUP/S5-RESTORE DOScompany license	151,- €
9650-MPI	SPS-Data safety S7-BACKUP/S7-RESTORE DOScompany license	251,- €

Windows

- Backup of the PLC-program of the projected PLC for data protection
- Simple restoring of the made backup
- Optional ability to control the connected PLC directly (start, stop, memory reset)
- Optional possibility to contact the S5-PLC via network and S5-LAN++



Commercial data:

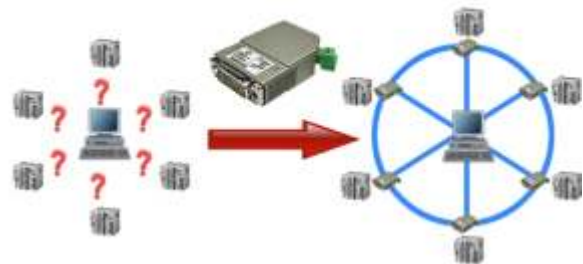
EAN number:	4260363243339
HS-code:	85234999



Automatical backup of your PLC



Network your controls and increase the availability of backups



Do you also need a backup of your PLC to preserve the production-process? With the S5/S7/H1-backup/restore-tool you would be able to backup your configured PLC cyclically every definable minute, every day at a fixed time point, weekly or once a month to a disk/network-drive of the computer.
You would be also able to restore the PLC when the backup-batterie fails or the PLC was damaged.

Your machines are fully distributed in your company area, it is not always a PC connected with the machine. What could be better than to connect the machines to your company network and backup the data central from one point!
With the option "Communication via S5-LAN++" and the S5-LAN++-modules, you can meet this requirement immediately.

article:		
Art. ID.	name	price
9650-UNI	PLC-Data saftey S5/S7/H1-Backup Win95/98/NT/2000/XP company license	490,- €

options:		
Art. ID.	name	price
9650-UNHKÜS	Option "Communication via S5-LAN++" for S5/S7/H1-Backup/Restore-Software company license	332,- €
9650-UNI-SSSU	Option "PLC Start/Stop/General Reset" for S5/S7/H1-Backup/Restore-Software company license	166,- €

CIM - 2001

- Visualisation on screen e.g. in excel
- Logging via the printer/screen
- Archiving on the PC (data saving/restoring)
- Process control by the PC
- Safe operation, using standardised user interface



Commercial data:

EAN number:	4260363242653
HS-code:	85234999



article:		
Art. ID.	name	price
9820	CIM-2001 for single S5 (without Bus) Single license	490,- €
9820-F	CIM-2001 for single S5 (without Bus) Company license	1990,- €
9820-B	CIM-2001 for up to 30 x S5 (with Bus) Single license	790,- €
9820-B-F	CIM-2001 for up to 30 x S5 (with Bus) Company license	2390,- €
9821	CIM-2001 for S7-300/400 Single license	790,- €
9821-F	CIM-2001 for S7-300/400 Company license	2390,- €
9822	CIM-2001 for S7-300/400 over RFC1006 Single license	790,- €
9822-F	CIM-2001 for S7-300/400 over RFC1006 Company license	2390,- €

PG-2000 Complete package



- For Siemens-S5-PLC's S5-90 ... S5-155
- For Siemens-S7PLC's S7-300/400 [FREEWARE without support]
- According to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- System requirements AT386 with 4MB RAM, 20MB free space on the fixed disc
- Supported Operating-Systems: Windows 98/NT/2000/XP/Vista/win7/win8.1 (32- and 64-bit)
- Direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD's; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- The enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- At LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- Online syntax checking already during input of the instruction
- The main commands are directly selectable by using the mouse or by keypress
- No differentiation of the normal modes: input, view, correction
- During editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- The accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- The result of a block comparison is displayed readable in STL form, not as hexdump
- Via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- Blocks which contain calls of no longer existing FB's can be edited anyway
- If parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- Previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to acquire the program modules he actually needs for his daily work
- Low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- Everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- At reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- The integrated project management offers an optimal overview of the projects
- Detailed online help with graphic elements and cross references
- Simultaneous display of lines- and symbolism comments

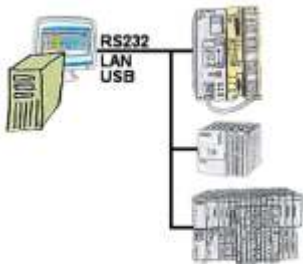
License- and usage rights:

- Due to user handling reasons we abstain from software protection by dongle or likewise, but each license incorporates the licensee's address and appears several times in the program
- Though a single license may be installed on several PC's, it is not allowed to be used on more than one PC at the same time
- Subsequent licenses are needed if simultaneous working on several PC's is required; the activation of options has to be identical with the ones of the single license
- A company license allows one and the same company resp. plant to use the PLC programming software in unlimited numbers simultaneously; each plant resp. division requires a separate company license
- A school license allows one and the same school resp. training centre to use the PLC programming software in unlimited numbers; with signing the license agreement the responsible trainer confirms that the software will be used uncommercial and only for training purposes
- S5 requires at least S5-STL, S7 at least S7-STL[FREEWARE without support]
- Economic prices because of modular usage rights
- Free software update and hotline service

Commercial data:

EAN number:	4260363240345
HS-code:	85234999

Programming/controlling of S5/S7[FREEWARE without support]-PLC's



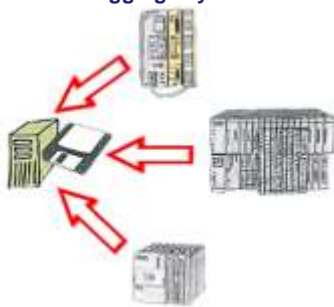
Remote maintenance of a S7-PLC[FREEWARE without support]



You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

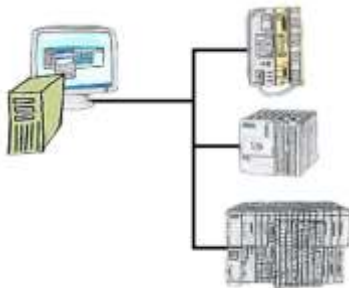
If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREEWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

Data logging of your PLC



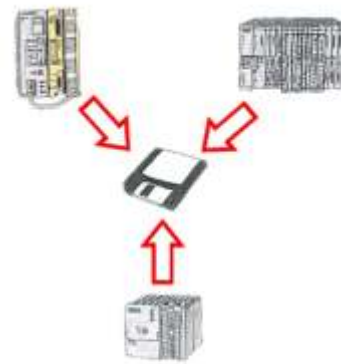
You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Project/history-administration of PLC-programming



Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will be recorded. So you can identify the one employee very quickly and changes are ex post comprehensible, too.

Backup of formulas without knowledge of PLC



You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

article:		
Art. ID.	name	price
9855	PG-2000 STEP5 complete package single license STL + LAD + CFS	562,- €
9855-3	PG-2000 STEP5 complete package company lic. STL + LAD + CFS	1534,- €
9855-2	PG-2000 STEP5 complete package subsequent license STL + LAD + CFS	202,- €
9890	PG-2000 STEP5 complete package school license STL + LAD + CFS	251,- €

variant:		
Art. ID.	name	price
9855-STARTER	Starter package PG-2000 STEP5 complete package Starter package single license	659,- €

options:		
Art. ID.	name	price
9851-CTR	PG-2000 option Controller single license comfortable Projekt / History - administration	176,- €
9851-CTR-3	PG-2000 option Controller company license comfortable Projekt / History - administration	529,- €
9851-CTR-2	PG-2000 option Controller subsequent license comfortable Projekt / History - administration	59,- €
9856	PG-2000 option Datalogger single license linewriter for the PLC	176,- €
9856-3	PG-2000 option Datalogger company license linewriter for the PLC	529,- €
9856-2	PG-2000 option Datalogger subsequent license linewriter for the PLC	59,- €
9851-DB	PG-2000 option DB - Backup single license automatic Backup / Restore of DB's	176,- €
9851-DB-3	PG-2000 option DB - Backup company license automatic Backup / Restore of DB's	529,- €
9851-DB-2	PG-2000 option DB - Backup subsequent license automatic Backup / Restore of DB's	59,- €

options:		
Art. ID.	name	price
9858	PG-2000 option H1 single license programming over Network-adapter supported OS: only Win XP	251,- €
9858-3	PG-2000 option H1 company license programming over Network-adapter supported OS: only Win XP	614,- €
9858-2	PG-2000 option H1 subsequent license programming over Network-adapter supported OS: only Win XP	87,- €
9851-TS	PG-2000 option Teleservice single license original TS-function for PG-2000	176,- €
9851-TS-3	PG-2000 option Teleservice company license original TS-function for PG-2000	529,- €
9851-TS-2	PG-2000 option Teleservice subsequent license original TS-function for PG-2000	59,- €

PG-2000 STEP 5



- For Siemens-S5-PLC's S5-90 ... S5-155
- For Siemens-S7PLC's S7-300/400 [FREEWARE without support]
- According to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementlist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- System requirements AT386 with 4MB RAM, 20MB free space on the fixed disc
- Supported Operating-Systems: Windows 98/NT/2000/XP/Vista/win7/win8.1 (32- and 64-bit)
- Direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD's; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- The enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- At LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- Online syntax checking already during input of the instruction
- The main commands are directly selectable by using the mouse or by keypress
- No differentiation of the normal modes: input, view, correction
- During editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- The accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- The result of a block comparison is displayed readable in STL form, not as hexdump
- Via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- Blocks which contain calls of no longer existing FB's can be edited anyway
- If parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- Previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to acquire the program modules he actually needs for his daily work
- Low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- Everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- At reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- The integrated project management offers an optimal overview of the projects
- Detailed online help with graphic elements and cross references
- Simultaneous display of lines- and symbolism comments

License- and usage rights:

- Due to user handling reasons we abstain from software protection by dongle or likewise, but each license incorporates the licensee's address and appears several times in the program
- Though a single license may be installed on several PC's, it is not allowed to be used on more than one PC at the same time
- Subsequent licenses are needed if simultaneous working on several PC's is required; the activation of options has to be identical with the ones of the single license
- A company license allows one and the same company resp. plant to use the PLC programming software in unlimited numbers simultaneously; each plant resp. division requires a separate company license
- A school license allows one and the same school resp. training centre to use the PLC programming software in unlimited numbers; with signing the license agreement the responsible trainer confirms that the software will be used uncommercial and only for training purposes
- S5 requires at least S5-STL, S7 at least S7-STL[FREEWARE without support]
- Economic prices because of modular usage rights
- Free software update and hotline service

Commercial data:

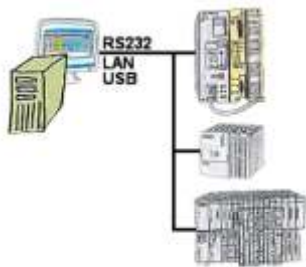
EAN number:

4260363240192

HS-code:

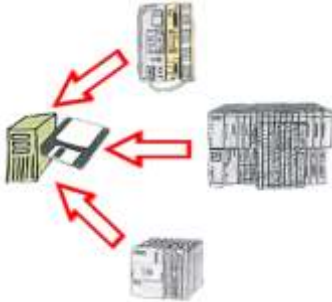
85234999

Programming/controlling of S5/7[FREWARE without support]-PLC's



If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

Data logging of your PLC



You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Remote maintenance of a S7-PLC[FREWARE without support]



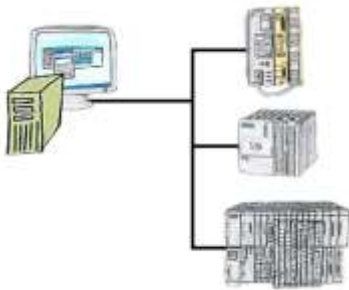
You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

Backup of formulas without knowledge of PLC



You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

Project/history-administration of PLC-programming



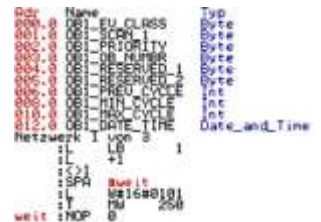
Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will be recorded. So you can identify the one employee very quickly and changes are ex post comprehensible, too.

article:		
Art. ID.	name	price
9851	PG-2000 STEP5-STL single license representation statementlist for Siemens S5	253,- €
9851-3	PG-2000 STEP5-STL company license representation statementlist for S5-90 ... 155U	759,- €
9851-2	PG-2000 STEP5-STL subsequent license representation statementlist for S5-90 ... 155U	84,- €

variant:		
Art. ID.	name	price
9851-STARTER	Starter package PG-2000 STEP5-STL single license, Starter package	350,- €

options:		
Art. ID.	name	price
9851-CTR	PG-2000 option Controller single license comfortable Projekt / History - administration	176,- €
9851-CTR-3	PG-2000 option Controller company license comfortable Projekt / History - administration	529,- €
9851-CTR-2	PG-2000 option Controller subsequent license comfortable Projekt / History - administration	59,- €
9856	PG-2000 option Datalogger single license linewriter for the PLC	176,- €
9856-3	PG-2000 option Datalogger company license linewriter for the PLC	529,- €
9856-2	PG-2000 option Datalogger subsequent license linewriter for the PLC	59,- €
9851-DB	PG-2000 option DB - Backup single license automatic Backup / Restore of DB's	176,- €
9851-DB-3	PG-2000 option DB - Backup company license automatic Backup / Restore of DB's	529,- €
9851-DB-2	PG-2000 option DB - Backup subsequent license automatic Backup / Restore of DB's	59,- €
9854	PG-2000 option CFS single license representation functionplan	176,- €
9854-3	PG-2000 option CFS company lic. representation functionplan	529,- €
9854-2	PG-2000 option CFS subsequent lic. representation functionplan	59,- €
9858	PG-2000 option H1 single license programming over Network-adapter supported OS: only Win XP	251,- €
9858-3	PG-2000 option H1 company license programming over Network-adapter supported OS: only Win XP	614,- €
9858-2	PG-2000 option H1 subsequent license programming over Network-adapter supported OS: only Win XP	87,- €
9853	PG-2000 option LAD single license representation ladder mode	176,- €
9853-3	PG-2000 option LAD company license representation ladder mode	529,- €
9853-2	PG-2000 option LAD subsequent license representation ladder mode	59,- €

PG-2000 STEP 7



- For Siemens-S5-PLC's S5-90 ... S5-155
- For Siemens-S7PLC's S7-300/400 [FREEWARE without support]
- According to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementlist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- System requirements AT386 with 4MB RAM, 20MB free space on the fixed disc
- Supported Operating-Systems: Windows 98/NT/2000/XP/Vista/win7/win8.1 (32- and 64-bit)
- Direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD's; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- The enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- At LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- Online syntax checking already during input of the instruction
- The main commands are directly selectable by using the mouse or by keypress
- No differentiation of the normal modes: input, view, correction
- During editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- The accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- The result of a block comparison is displayed readable in STL form, not as hexdump
- Via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- Blocks which contain calls of no longer existing FB's can be edited anyway
- If parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- Previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to acquire the program modules he actually needs for his daily work
- Low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- Everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- At reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- The integrated project management offers an optimal overview of the projects
- Detailed online help with graphic elements and cross references
- Simultaneous display of lines- and symbolism comments

License- and usage rights:

- FREEWARE, no guarantee and support
- Step7 in demo-version (see: Main downloads) included, costless FREEWARE-license must be requested

Commercial data:

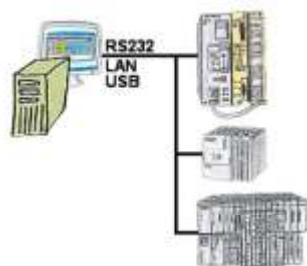
EAN number:

4260363240871

HS-code:

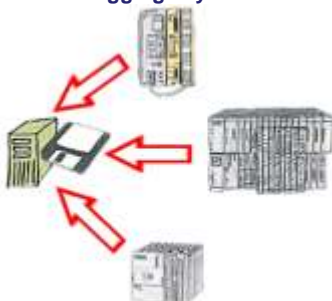
85234999

Programming/controlling of S5/7[FREEWARE without support]-PLC's



If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREEWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

Data logging of your PLC



You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Remote maintenance of a S7-PLC[FREEWARE without support]



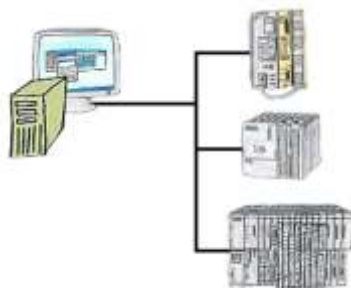
You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

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article:		
Art. ID.	name	price
9855-S7-0	PG-2000 STEP7 FREEWARE without support / guarantee	0,- €

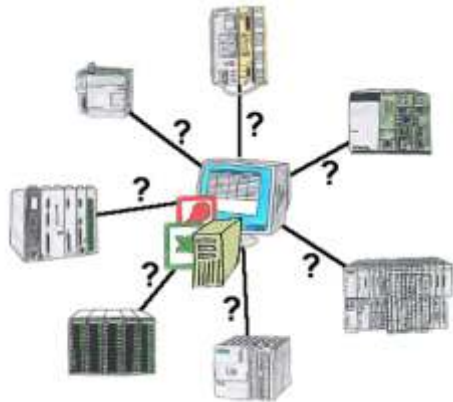
options:		
Art. ID.	name	price
9851-CTR	PG-2000 option Controller single license comfortable Projekt / History - administration	176,- €
9851-CTR-3	PG-2000 option Controller company license comfortable Projekt / History - administration	529,- €
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9856	PG-2000 option Datalogger single license linewriter for the PLC	176,- €
9856-3	PG-2000 option Datalogger company license linewriter for the PLC	529,- €
9856-2	PG-2000 option Datalogger subsequent license linewriter for the PLC	59,- €
9851-DB	PG-2000 option DB - Backup single license automatic Backup / Restore of DB's	176,- €
9851-DB-3	PG-2000 option DB - Backup company license automatic Backup / Restore of DB's	529,- €
9851-DB-2	PG-2000 option DB - Backup subsequent license automatic Backup / Restore of DB's	59,- €
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9854-3	PG-2000 option CFS company lic. representation functionplan	529,- €
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9858	PG-2000 option H1 single license programming over Network-adapter supported OS: only Win XP	251,- €
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9853	PG-2000 option LAD single license representation ladder mode	176,- €
9853-3	PG-2000 option LAD company license representation ladder mode	529,- €
9853-2	PG-2000 option LAD subsequent license representation ladder mode	59,- €
9851-TS	PG-2000 option Teleservice single license original TS-function for PG-2000	176,- €
9851-TS-3	PG-2000 option Teleservice company license original TS-function for PG-2000	529,- €
9851-TS-2	PG-2000 option Teleservice subsequent license original TS-function for PG-2000	59,- €

PLC - communication driver

- Operating systems: Windows NT/2000/XP/Vista/7/8/Windows-Server (32- and 64-bit), Linux, Linux Embedded
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java, MatLab
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler



Communication to PLC-devices, but no knowledge of the specific protocols



Who know's the problem, you need for the analysis of your production some data from the plc, but you don't know the protocole of the PLC? No problem, you have to use the specific protocole of the PLC as DLL in your application (if itself developed or Excel, Access, ans so on) and you will be able to read from or write to the PLC.

AEG

RS232

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: A120, A250

Commercial data:

EAN number:	4260363242141
HS-code:	85234999



article:		
Art. ID.	name	
9740-S.AEG-32	PC-AEG-LINK Sourcecode Protocol KS-functions (A120, A250) for Win 95/98/NT/2000/XP/Vista	
9740.AEG-32	PC-AEG-LINK site / company license Protocol KS-functions (A120, A250) for Win 95/98/NT/2000/XP/Vista	

BOSCH

LAN

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: BUEP19/BUEP19E
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler

Commercial data:

EAN number:	85234999
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article:		
Art. ID.	name	
9749.BO-P	IP-Bosch-LINK single license Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9749.BO-LINUX	IP-Bosch-LINK Linux Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9749.BO	IP-Bosch-LINK site / company license Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	

RS232

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: BUEP19/BUEP19E
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler



Commercial data:**EAN number:**

4260363242103

HS-code:

85234999

article:	
Art. ID.	name
9743-S-32	PC-Bosch-LINK Sourcecode Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista
9743-32	PC-Bosch-LINK site / company license Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista

MITSUBISHI/MELSEC RS232

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: A-/Q-/FX-series
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler

**Commercial data:****EAN number:**

4260363242448

HS-code:

85234999

article:	
Art. ID.	name
9744-32-QR2	PC-Melsec System-QR2-LINK serial single license QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista
9744-S-32-QR2	PC-Melsec System-QR2-LINK serial site / company license QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista
9744-S-32	PC-Mitsubishi-LINK Sourcecode Win95/98/NT/2000/XP/Vista
9744-32	PC-Mitsubishi-LINK site / company license Win95/98/NT/2000/XP/Vista

LAN

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: A-/Q-/FX-series
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler

**Commercial data:****EAN number:**

85234999

article:	
Art. ID.	name
9744-32-QJ	PC-Melsec System-QJ-LINK TCP/IP single license QJ71E71-100 over TCP/IP for Win95/98/NT/2000/XP/Vista
9744-S-32-QJ	PC-Melsec System-QJ-LINK TCP/IP site / company license QJ71E71-100 over TCP/IP for Win95/98/NT/2000/XP/Vista

SIMATIC S5

LAN

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLCs: Siemens S5
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler

**Commercial data:****EAN number:**

4260363242547

HS-code:

85234999

article:	
Art. ID.	name
9742.32-H1-P	IP-H1-LINK for Windows, single license S5-H1-TCP/IP over ISO on TCP, Win NT/2000/ XP/Vista/7/8/Windowsserver 32-bit
9742.32-H1	IP-H1-LINK for Windows, site / company license S5-H1-TCP/IP over ISO on TCP, Win NT/2000 /XP/Vista/7/8/Windowsserver 32-Bit
9759-S5	IP-driver for S5-LAN Windows DLL site / company license Win95/98/NT/2000/XP/Vista
9748.32-P	PC-H1-LINK for Windows, single license ISO-protocol for standard-Ethernetcard Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit
9748.32-S	PC-H1-LINK for Windows, Sourcecode ISO-protocol for standard-Ethernetcard Win NT/2000/XP/Vista/7/8/Windowsserver
9748.32	PC-H1-LINK for Windows, site / company license ISO-protocol for standard-Ethernetcard Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit
9759-S5-PHP-WIN	PHP-Interface for S5-LAN-LINK site / company license for Windows
9759-S5-PHP-LIN	PHP-Interface for S5-LAN-LINK site / company license for LINUX

RS232

- Operating systems: Windows CE/NT/2000/XP/Vista/7 (32- and 64-bit), Linux
- Programming languages: C/C++, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLCs: Siemens S5
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler



Commercial data:

EAN number: 4260363241892

HS-code: 85234999

article:	
Art. ID.	name
9741-S-32	PC-R3964R-LINK for Windows, sourcecode Serial 3964R with RK512 Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit
9741-32	PC-R3964R-LINK for Windows, site / company license Serial 3964R with RK512 Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit
9745-P	PC-S5-LINK PG-BUS-AS511 single license up to 30 PLC's to 1 COM for Win95/98/NT/2000/XP/Vista
9745	PC-S5-LINK PG-BUS-AS511 site / company license up to 30 PLC's to 1 COM for Win95/98/NT/2000/XP/Vista
9747-P	PC-S5-LINK-AS511 single license 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista
9894	PC-S5-LINK-AS511 school license 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista
9747-S	PC-S5-LINK-AS511 Sourcecode 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista
9747	PC-S5-LINK-AS511 site / company license 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista

SIMATIC S7 LAN

- Operating systems: Windows NT/2000/XP/Vista/7/8/Windows-Server (32- and 64-bit), Linux, Linux Embedded
- For S7-200/300/400/1200/ **1500**-PLCs with CP or ProfiNet or S7-MPI-LAN
- No additional PLC-program necessary
- Inputs, outputs, flags, DB's, timers, counters
- Programming languages: C/C++, C#, VB, VB.NET, Delphi, Excel, Access, PHP, Java, LabView, MatLab
- Example-programs for VB, VB.Net, C#, C++, Delphi
- Simple interface, for e.g. Read DB10 word 20:
Ref = IPS7Open("192.168.0.9", Rack, Slot);
IPS7RdW(Ref, 'D', 10, 20, 1, Buffer);
IPS7Cld(Ref);
- DLL/library for data exchange PC and SIMATIC S7
- 12 month costless support and upgrade-service
- Single license and royalty-free-license
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler
- Optional with source code
- Demo version is ideal for developing, then the demo-DLL has to exchanged only with the licensed DLL.



Commercial data:
EAN number:

4260363242882

HS-code:

85234999

article:		
Art. ID.	name	
9742.LIN-P	IP-S7-LINK for LINUX, single license S7-200/300/400/1200/1500 Linux 32-bit	
9742.LIN	IP-S7-LINK for LINUX, site / company license S7-200/300/400/1200/1500 Linux 32-bit	
9742.32-S7-P	IP-S7-LINK for windows, single license S7-200/300/400/1200/1500 Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit	
9742.64-S7-P	IP-S7-LINK for windows, single license S7-200/300/400/1200/1500, Win XP/Vista /7/8/Windowsserver 64-Bit	
9742.32-S7	IP-S7-LINK for windows, site / company license S7-200/300/400/1200/1500 Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit	
9742.64-S7	IP-S7-LINK for windows, site / company license S7-200/300/400/1200/1500, Win XP/Vista /7/8/Windowsserver 64-bit	
9342-UP	IP-S7-LINK versions-upgrade versions-upgrade IP-S7-LINK uniquely upgrade for the existing company-license to the actual state 32- or 64-bit	
9759.32-S7	IP-driver for S5/S7-LAN for windows, site / company license Win NT/2000/XP/Vista/7/8/Windowsserver 32-bit	
9759.64-S7	IP-driver for S5/S7-LAN for windows, site / company license Win NT/2000/XP/Vista/7/8/Windowsserver 64-bit	
9742.NET-S7-E	IPS7LnkNet.Advanced for .net, single license S7-200/300/400/1200/1500 .net Framework / Mono 32/64-bit	
9742.NET-S7	IPS7LnkNet.Advanced for .net, site / company license S7-200/300/400/1200/1500 .net Framework / Mono 32/64-bit	
9742.32-PHP-LIN.P	PHP-Interface IP-S7-Link for Linux, single license S7-200/300/400/1200/1500 Linux 32-bit	
9742.64-PHP-LIN.P	PHP-Interface IP-S7-Link for Linux, single license S7-200/300/400/1200/1500 Linux 64-bit	
9742.32-PHP-LIN	PHP-Interface IP-S7-Link for Linux, site / company license S7-200/300/400/1200/1500 Linux 32-bit	
9742.64-PHP-LIN	PHP-Interface IP-S7-Link for Linux, site / company license S7-200/300/400/1200/1500 Linux 64-bit	
9742.32-PHP-WIN.P	PHP-Interface IP-S7-Link for Windows, single license S7-200/300/400/1200/1500 Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit	
9742.64-PHP-WIN.P	PHP-Interface IP-S7-Link for Windows, single license S7-200/300/400/1200/1500, Win XP/Vista /7/8/Windowsserver, 64-bit	
9742.32-PHP-WIN	PHP-Interface IP-S7-Link for windows, site / company license S7-200/300/400/1200/1500 Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit	
9742.64-PHP-WIN	PHP-Interface IP-S7-Link for Windows, site / company license S7-200/300/400/1200/1500, Win XP/Vista /7/8/Windowsserver, 64-bit	
9742.32-S7R-P	Routing to all PLC single license via CP to MPI and Profibus	
9742.32-S7R.LIN-P	Routing to all PLC single license via CP to MPI and Profibus	
9742.32-S7R	Routing to all PLC company license via CP to MPI and Profibus	

article:	
Art. ID.	name
9742.32-S7R.LIN	Routing to all PLC company license via CP to MPI and Profibus
SUP-9742.NET-S7	Software Update & Support service IPS7LnkNet.Advanced Automatical Upgrade for innovations incl. technical support for 12 months. Requirements: company license IPS7LnkNet.Advanced not older than 9 months or together with IPS7LnkNet.Advanced company license upgrade.
SUP-9742-S7	Software Update & Support service IP-S7-LINK Automatical Upgrade for innovations incl. technical support for 12 months. Requirements: company license IP-S7-LINK not older than 9 months or together with IP-S7-LINK company license upgrade.
9342-UPTONET	Upgrade IP-S7-LINK To IPS7lnknet.Advanced Upgrade only from company license, 20% discount included, limited hour 12 month of technical support and error correction

RS232

- Operating systems: Windows NT/2000/XP/Vista/7/8/Windows-Server (32- and 64-bit), Linux, Linux Embedded
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- No additional PLC-program necessary
- Inputs, outputs, flags, DB's, timers, counters
- Programming languages: C/C++, C#, VB, VB.NET, Delphi, Excel, Access, PHP, Java, LabView, MatLab
- Example-programs for VB, VB.Net, C#, C++, Delphi
- Simple interface, for e.g. Read DB10 word 20:

```
Ref = IPS7Open("192.168.0.9", Rack, Slot);
IPS7RdW(Ref, 'D', 10, 20, 1, Buffer);
IPS7Close(Ref);
```
- DLL/library for data exchange PC and SIMATIC S7
- 12 month costless support and upgrade-service
- Single license and royalty-free-license
- Single licenses may be only used project-related
- Please specify for ordering a single license the used compiler
- Optional with source code
- Demo version is ideal for developing, then the demo-DLL has to exchanged only with the licensed DLL.



Commercial data:

EAN number:	4260363242233
HS-code:	85234999

article:	
Art. ID.	name
9749.32-P	PC-MPI-S7-LINK S7-200/300/400 single license Win95/98/NT/2000/XP/Vista
9749.LIN-P	PC-MPI-S7-LINK S7-200/300/400 single license LINUX
9749.32-L	PC-MPI-S7-LINK S7-200/300/400 school license Win95/98/NT/2000/XP/Vista
9749.32-S	PC-MPI-S7-LINK S7-200/300/400 Sourcecode Win95/98/NT/2000/XP/Vista
9749.32	PC-MPI-S7-LINK S7-200/300/400 site / company license Win95/98/NT/2000/XP/Vista
9749.LIN	PC-MPI-S7-LINK S7-200/300/400 site / company license LINUX

VIPA

LAN

- Operating systems: Windows NT/2000/XP/Vista/7/8/Windowsserver
- Programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: VIPA TCP/IP-CPs

Commercial data:

EAN number:	85234999
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article:	
Art. ID.	name
9742.32-VP-P	IP-VIPA-LINK for Windows, single license for VIPA-TCP/IP-CPs Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit
9742.32-VP	IP-VIPA-LINK for Windows, site / company license for VIPA-TCP/IP-CPs Win NT/2000/XP/Vista /7/8/Windowsserver 32-bit

OPC-Server

- OPC-Clients due to specification 1.0 / 2.0
- Provided protocols:
 - S7 TCP/IP (RFC1006, CP343-1, CP443-1, S7-LAN, MPI-LAN)
 - S7 MPI / PPI (MPI/PPI-Kabel, MPI-II, MPI-USB, S7-USB)
 - S5 TCP/IP – H1 (RFC1006, CP143-TCP, S5-LAN++, VIPA-CP)
 - S5 AS512 (RK511)
 - S5 3964R (RK512)
 - Moeller PS4/PS416
 - AEG A120/A250 (KS-functions)
 - Modbus RTU/ASCII serial, TCP/IP, remote data transmission
 - IBH softec SoftPLC
 - WAGO Ethernet TCP/IP FPC
 - SAIA PLC (S-Comm)
- Clearly arranged listing of links with status display
- Four serial ports (COM1 – COM4)
- Low CPU stress
- Unlimited number of connections
- Manual creation of items as well as possible by OPC clients
- Display of actual and nominal value
- Recording of the linked communication modules in real time
- Each configured control can be switched into simulation mode
- For Win2000, XP, Server2003, Vista and Win7 (32-/64-bit)

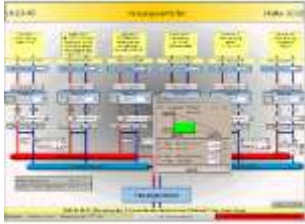


Commercial data:

EAN number:	4260363240611
HS-code:	85234999

article:		
Art. ID.	name	
9769-23	OPC 3964R with RK512 serial	
9769-24	OPC 3964R with RK512 TCP/IP with 3964R LAN	
9760-10	OPC AEG 120/250 KS-Fct. serial	
9760-09	OPC Klöckner Moeller on TCP	
9760-19	OPC Modbus Slave seriell on TCP	
9760-022	OPC S5 H1 on ISO	
9760-012	OPC WAGO on TCP Single license	
9760-004	OPC XML-DA-package	
9760-110	OPC-Manager (like 9760-100) company license per protocol	
9760	OPC-Manager lite	
9760-100	OPC-Manager S7 TCP/IP RFC1006 + OPC S7 MPI/PPI+ OPC S7 PPI S7-200+ OPC S5 AS511 serial+ OPC S5 H1 on TCP	
9760-100-USB-N	USB-Dongle for OPC-Manager past licensing	
9760-100-USB	USB-Dongle for OPC-Manager at licensing	

Victory Boxed Release

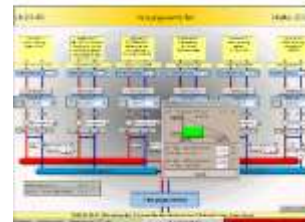


article:		
Art. ID.	name	price
V9500-1B	Victory Boxed Release 5 1.000 variables	1199,- €
V9500-005 B	Victory Boxed Release 5 50 variables	399,- €
V9500-01 B	Victory Boxed Release 5 100 variables	599,- €
V9500-02 B	Victory Boxed Release 5 200 variables	799,- €
V9500-05 B	Victory Boxed Release 5 500 variables	999,- €
V9500-5 B	Victory Boxed Release 5 5.000 variables	1399,- €

article:		
Art. ID.	name	price
V9500-10 B	Victory Boxed Release 5 10.000 variables	1599,- €
V9500-20 B	Victory Boxed Release 5 20.000 variables	1799,- €
V9500-N B	Victory Boxed Release 5 unlimited variables	1999,- €

Victory Release 5

- 32-bit visualisation with multiprocessor support
- Unlimited number of variables -> unlimited number of I/O
- Victory is working with following data types: value, text and array (field)
- The text length and array depth is not limited
- Each module driver is an independent COM/DCOM-Server, therefore immediately network-compatible
- The cycle program uses the process programming language CPL, which is ajar to the syntax of C / C++
- Programming takes place in a modern programming environment and offers several features, which are enormously helpful during processing and in the test phase
- Message processing is an inherent part of the Victory's quintessence and is also used for own reporting
- Completely new and enormous improved graphic engine
- Integrated ODBC connection, HTTP-Server, E-Mail-Client, SMS/Pager/VoiceMail-services
- User management is based on user groups and their assigned activities



article:		
Art. ID.	name	price
V9530-S5	Victory Release 5 PLC-driver Siemens S5 protocols	899,- €
V9530-S7	Victory Release 5 PLC-driver Siemens S7 protocols	799,- €
V9533-1	Victory Release 5 PLC-driver AEG ModiconAEG A120 / A250	399,- €
V9537-1	Victory Release 5 PLC-driver Victory4/WinLab/easyware Victory4 Netfile	199,- €
V9538-1	Victory Release 5 PLC-driver SAIA & BurgessSAIA PLC via S-Comm	399,- €
V9539-1	Victory Release 5 PLC-driver General protocols MODBUS Server serial I+TCP/IP	399,- €
V9536-1	Victory Release 5 PLC-driver EPIS EPIS EMD-series	299,- €
V9532-1	Victory Release 5 PLC-driver Hilscher Profibus DP (for card CIF-50 PB)	299,- €
V9534-1	Victory Release 5 PLC-driver IBH IBH softec SoftPLC	299,- €
V9531-2	Victory Release 5 PLC-driver Moeller Moeller PS4/PS416	399,- €
V9535-1	Victory Release 5 PLC-driver WAGO WAGO Ethernet TCP/IP FPC	399,- €
V9500-1	Victory Release 5 developer licenses 1.000 variables	1299,- €
V9500-20	Victory Release 5 developer licenses 20.000 variables	1999,- €
V9500-N	Victory Release 5 developer licenses unlimited variables	2499,- €
V9510-5	Victory Release 5 option dialogue/reporter	499,- €
V9510-1	Victory Release 5 option recorder	499,- €
V9510-4	Victory Release 5 option switching time planer	499,- €
V9510-6	Victory Release 5 option touchscreen input	299,- €
V9599-HTTP	Victory Release 5 HTTP-Runtime licenses for each HTTP-Client	99,- €
V9599-02	Victory Release 5 Runtime licenses 200 variables	349,- €
V9599-1	Victory Release 5 Runtime licenses 1.000 variables	499,- €
V9599-5	Victory Release 5 Runtime licenses 5.000 variables	749,- €
V9599-10	Victory Release 5 Runtime licenses 10.000 variables	999,- €
V9599-20	Victory Release 5 Runtime licenses 20.000 variables	1299,- €
V9599-N	Victory Release 5 Runtime licenses 20.000+ variables	1799,- €
V9500-MT	Victory Release 5 maintenance service 12months per developer license	799,- €

S7-FileLogger

- Easy and comfortable reading of PLC-data cyclically or controlled by PLC and written to a file
- Supported PLC types:
 - Logo
 - S7-200 over CP243-1 or S7-LAN as Multimaster
 - S7-300/400 over CP343-1, CP434-1 or S7-LAN
 - S7-1200
 - S7-1500
- Data types:
 - BOOL
 - INT
 - DINT
 - WORD
 - DWORD
 - REAL
 - TIME
 - DATE
 - TIME_AND_DATE
 - STRING
- Output format:
 - Decimal
 - Floating point format (1,22) or scientific (6E+01)
 - Binary
 - Hexadecimal
 - Bool (free text for 0/1)
 - Date (free formatted)
- 3 different stages of development of the software, backward compatible
 - Standard:
 - Up to 4 PLC-connections
 - 100 variables/connection
 - Logging to CSV-file
File name and destination directory freely selectable (date, time can flow into the file-name and directory-name)
 - Triggers in adjustable time interval (100 ms ... days)
 - The last 500 records/connection immediately visible in the logger
 - Advanced, like as Standard but:
 - 64 PLC-Connections
 - 1000 variables/connection
 - By PLC-trigger (for example: flag)
 - fixed number of records buffered in PLC
 - Start from the Command-Line-Interface
 - Logging in XML and/or CSV possible
 - Expert, like as Advanced but:
 - 256 PLC-connections
 - 1000 variables/connection
 - Trigger start/stop by condition in the PLC
 - Adjustable trigger duration
 - by flag (bit 0/1)
 - if Variabe in certain range of values (<=>)
 - Action to PLC triggered when trigger is active and data stored
 - variable number of records buffered in PLC
 - FIFO implemented via pointers in the PLC, then cycle-accurate data can be recorded



Commercial data:

EAN number: 85234999

article:		
Art. ID.	name	
9771-S7L	S7-FileLogger TCP/IP S7 for WIN 32/64 XP/Vista/7/8 (from .Net 3.5) single license (Standard-Version)	
9771-S7L-A	S7-FileLogger TCP/IP S7 for WIN 32/64 XP/Vista/7/8 (from .Net 3.5) single license (Advanced-Version)	
9771-S7L-E	S7-FileLogger TCP/IP S7 for WIN 32/64 XP/Vista/7/8 (from .Net 3.5) single license (Export-Version)	



Connector 2pins big

- Connector socket with 2 contacts
- Cable connection with screw terminal
- Locked with the jack with screws



Technical Specifications:

Number of positions:	2
Nominal voltage:	250 V (maximum)
Nominal current:	12 A (maximum)
Pitch:	5,08 mm
Stripping length:	7 mm
Inflammability class:	V0

Commercial data:

EAN number:	4260363240970
HS-code:	85366990
Weight:	0.0050 kg

article:		
Art. ID.	name	price
9371-24	Power connector 2pins big connector plug lockable by jack with screws	3,- €

Connector 2pins small

- Connector socket with 2 contacts
- Cable connection with screw terminal



Technical Specifications:

Number of positions:	2
Nominal voltage:	160 V (maximum)
Nominal current:	8 A (maximum)
Pitch:	3,81 mm
Stripping length:	7 mm
Inflammability class:	V0

Commercial data:

EAN number:	4260363240918
HS-code:	85366990

article:		
Art. ID.	name	price
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	3,- €

Connector 3pins big

- Connector socket with 3 contacts
- Cable connection with screw terminal
- Locked with the jack with screws



Technical Specifications:

Number of positions:	3
Nominal voltage:	250 V (maximum)
Nominal current:	12 A (maximum)
Pitch:	5,08 mm
Stripping length:	7 mm
Inflammability class:	V0

Commercial data:

EAN number:	4260363243346
HS-code:	85366990

article:		
Art. ID.	name	price
9372-24	Power connector 3pins big connector plug lockable by jack with screws	3,- €

AC adapter

- Universal power adapter for all our products
- Power supply for a wide field of applications
- Recognizes and automatically adjusts itself to the applied voltage (100V - 240V)
- Europe and USA plug included



Technical Specifications:

Supply voltage:	100 - 240 V/AC, 50 - 60 Hz
Output voltage:	24 V/DC
Power supply:	15 watt
Operating temperature:	5 - 40°C
Case:	black plastic case
Dimensions:	85 x 50 x 32 mm

Commercial data:

EAN number:	4260363240635
HS-code:	85366990
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	39,- €

USB-powercable for 24V DC

- Generates from the USB 5V-voltage the required 24V DC
- Maximum bleed current: 125mA
- When connected to PC only maximum 100mA!
- USB-plug type A, so fits into USB-battery-packs
- Cable length: 5m
- Special length on demand

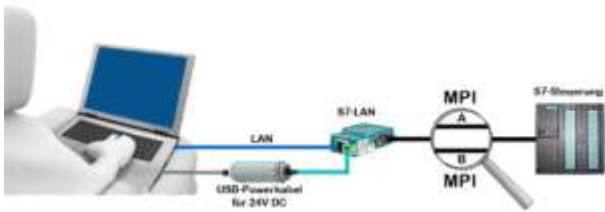


Technical Specifications:

Supply voltage:	5V DC
Power consumption:	max. 3 watt
Interfaces:	1x USB-plug type A 1x open bleed (Green: + 24V DC, White: GND)
Galvanic separation:	1000V
Operating temperature:	5 - 55°C
Case:	plastic case
Cablelength:	5 m

Commercial data:

EAN number:	4260363244169
HS-code:	85444290
Weight:	0.3000 kg



You are on site at your plant, right in the field and have no 24V DC to power your S7-LAN-module? Plug the USB-powercable into a free USB-port on your PC, connect it to the S7-LAN-module and you will be immediatly Online on the connected bus.

Complete supply from the PC



You are on site at your plant, right in the field and have no electrical outlet in order to realize your internet-access by Toni. Plug the USB-powercable into a free USB-port on your PC, connect it to the Toni and you will have immediate access to the internet.



You want to move your mobile plant and need for the Acces-Point ALF a 24V DC supply. Through the USB-powercable and a USB-power-battery you have mastered the problem with little effort.

article:		
Art. ID.	name	price
9391-USB	USB-powercable for 24V DC, max. 3W USB-plug type A to 2 open braids 24V DC, maximum current: 125mA length: 5m	89,- €

accessories:			
Art. ID.	name	page	price
9371-24	Power connector 2pins big connector plug lockable by jack with screws	103	3,- €
9352-24	Power connector 2pins small cable coupling by screw-connector (small)	103	3,- €
9372-24	Power connector 3pins big connector plug lockable by jack with screws	103	3,- €

Mounting-set

- Fast and easy mounting on DIN rail
- Mounting kit is made of metal
- Scope of supply: 2 x mounting brackets + 2 x screws



Commercial data:

EAN number:	4260363243209
HS-code:	85444290

article:		
Art. ID.	name	price
9391-MT	Mounting set for DIN-rail-holder	25,- €

DIN-rail mounting for MPI cables

- Fast and easy mounting on DIN rail
- Mounting kit is made of black metal
- Scope of supply: 1 x bracket for MPI cable + 2 x screws



Commercial data:

EAN number:	4260363243544
HS-code:	85444290

article:		
Art. ID.	name	price
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	10,- €

variant:		
Art. ID.	name	price
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	5,- €

MPI- / Profibus connecting cable

- 9pol (male) - 9pol (male)
- 4 screws for mounting
- Pin assignment: pin 3, 4, 5 and 8 1to1 realized
- Connection cable, so no integrated termination
- Suitable for MPI/PPI-Profibusmodem and TELE-PROFessional-II
- Dimensions of the plug: 50 x 35 x 15 mm
- Length: 1m



Commercial data:

EAN number:	4260363243254
HS-code:	85444290

article:		
Art. ID.	name	price
9379.1	MPI/Profibus connecting cable 1m connects MPI-modem/TP-II with the S7-PLC	10,- €

MPI- / Profibus connecting cable (for Tele-Service)

- 9pol (male) - 9pol (male)
- 4 screws for mounting
- Pin assignment: pin 2, 3, 4, 5, 7 and 8 1to1 realized
- Connection cable, so no integrated termination
- Suitable for TeleService Analog, ISDN and GSM
- Dimensions of the plug: 30 x 30 x 13 mm
- Length: 1m



Commercial data:

EAN number:	4260363241052
HS-code:	85444290

article:		
Art. ID.	name	price
9377.1	MPI/Profibus connecting cable 1m for Tele-Service	10,- €

MPI-netadapter with power-adapter

- Generates a 24V power supply for the MPI cable
- Allows a 2-wire connection to the PLC
- Voltage is not on the PLC side
- The rest is connected through 1 : 1



Technical Specifications:	
Supply voltage:	100 - 240 V/AC, 50 - 60 Hz
Output voltage:	24 V/DC
Power supply:	15 watt
Interfaces:	to the PLC:
	9 pol. plug for AG-connection
	to the PD/PC:
	9 pol. jack for PD-connection
Operating temperature:	5 - 40°C
Case:	grey plastic case
Dimensions:	65 x 35 x 15 mm

Commercial data:	
EAN number:	4260363242721
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9350-4	Power-adapter for MPI-cable with power-supply unit 100-240VAC	51,- €

variant:		
Art. ID.	name	price
9350-4-ON	Power-adapter for MPI-cable without power-supply unit	41,- €

MPI-netadapter without power-adapter

- Generates a 24V power supply for the MPI cable
- Allows a 2-wire connection to the PLC
- Voltage is not on the PLC side
- The rest is connected through 1 : 1



Technical Specifications:	
Supply voltage:	24 V/DC
Output voltage:	24 V/DC
Power supply:	depending on your voltage source
Interfaces:	to the PLC:
	9 pol. plug for AG-connection
	to the PD/PC:
	9 pol. jack for PD-connection
Operating temperature:	5 - 40°C
Case:	grey plastic case
Dimensions:	65 x 35 x 15 mm

Commercial data:	
EAN number:	4260363241007
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9350-4-ON	Power-adapter for MPI-cable without power-supply unit	41,- €

variant:		
Art. ID.	name	price
9350-4	Power-adapter for MPI-cable with power-supply unit 100-240VAC	51,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €

Stub-compensator without galv. separation

- Interface module for the mpi-/profibus to compensate stubs
- No galvanic separation between bus and S7-interface-product
- No settings for bus-type or bus-baudrate needed
- Supports following S7-interface-products:
 - S7-LAN
 - S7-USB
 - MPI-LAN-cable
 - MPI-USB-cable
 - MPI-II-cable
 - MPI/PPI-cable



Technical Specifications:

Power consumption:	5V / typ. 80mA
Data rate:	9600 ... 12 MBit/s
Interfaces:	to the PLC: 9 pol. male connector for PLC-connection
	to the PD/PC: 9 pol. female connector for PD-connection
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm
Commercial data:	
EAN number:	4260363241274
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9352-RS485-SK	Stub-compensator without galv. separation	79,- €

Universal DIN-rail mounting

- Universal mounting on DIN rail
- Mounting kit is made of metal casting
- By simple mechanics undone at any time
- Permanently mounted on the respective product



Commercial data:

EAN number:	4260363241069
HS-code:	85444290

article:		
Art. ID.	name	price
9391-UH	Universal DIN-rail-holder Including mounting of the relevant product	49,- €

TS-adapter

- Adapter makes a 9-pin plug of a 9-pin jack
- Simply adjust the MPI cable for TS function and add the adapter
- Pin assignment turned in the adapter
- Bolts and screws to fasten
- Screen connected through
- Length: 20 cm



Commercial data:

EAN number:	4260363242769
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9350-TS	Adapter cable 9pins to modem for TS-function	30,- €

Connection cable MPI - X to CheapConn

- Connect your CheapConn with one of our MPI cable for parallel programming on the bus
- Plug in with simple and mix-up-proof standardized connectors
- 9-pin 1 : 1 plated-through
- Screen connected through
- Length: 0.5 m



Commercial data:

EAN number:	4260363243247
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	5,- €

Wall mounting of MPI cables

- Fast and easy mounting at the wall
- Mounting kit is made of plastic
- Scope of supply: 2 x cementing clip + 2 x screws + 2 x cable tie



Commercial data:

EAN number:	4260363242974
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9350-WAND	Wall-mounting for MPI/PPI + MPI-II + MPI-USB	5,- €

variant:		
Art. ID.	name	price
9391-HH	DIN-rail-holder for MPI/PPI quick and easy assembling on the cap rail	10,- €

Monkey-swing

- Connects the PG socket of the S5-PLC with the PG socket of the CP
- To program the S5 PLC via the CP
- 15pin D-Sub connector - 15pin D-Sub connector
- Length: 60cm

Commercial data:

EAN number:	4260363242219
HS-code:	85444290
Weight:	0.2000 kg



article:		
Art. ID.	name	price
9359.AF	monkey-swing PD-interface CP <=> PD-interface PLC (needed with H1, L1 or L2-bus)	49,- €

variant:		
Art. ID.	name	price
9359.AF-150	monkey-swing for S5-150U PD-interface CP <=> PD-interface PLC S5-150U (needed with H1, L1 or L2-bus)	49,- €

AG150-adapter

- The AG150 adapter is an additional adapter to the PG-Uni, PG-Uni-II or S5-LAN
- AG150 adapter only in conjunction with a Netz adapter used
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- Length: 10 cm

Commercial data:

EAN number:	4260363240420
HS-code:	85444290
Weight:	0.2000 kg



article:		
Art. ID.	name	price
9359-5-150	AG-150-adapter for PG-UNI + PG-UNI-II-cable to AG-150	39,- €

variant:		
Art. ID.	name	price
9359-5-150-USB	PG-USB AG-150-adapter for PG-USB-cable to AG-150	39,- €

accessories:

Art. ID.	name	page	price
9359-4	Power-adapter for PG-UNI-cable /UNH-II-cable/S5-LAN++	111	59,- €

AG150-adapter for PG-USB

- The AG150-adapter is an additional adapter to the PG-USB
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- Length: 10 cm

**Commercial data:**

EAN number:	4260363241120
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-5-150-USB	PG-USB AG-150-adapter for PG-USB-cable to AG-150	39,- €

variant:		
Art. ID.	name	price
9359-5-150	AG-150-adapter for PG-UNI + PG-UNH-II-cable to AG-150	39,- €

CP525-adapter

- The CP525-adapter is an additional adapter to the PG-Uni, PG-Uni-II
- Connection to the programming port of the CP525
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm

**Commercial data:**

EAN number:	4260363240314
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-5	CP-525-adapter for PG-UNI + PG-UNH-II-cable <-> CP-525	39,- €

variant:		
Art. ID.	name	price
9359-5-USB	PG-USB CP-525-adapter for PG-USB-cable <-> CP-525-communication	39,- €

CP525-adapter for PG-USB

- The CP525-adapter is an additional adapter to the PG-USB
- Connection to the programming port of the CP525
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm

**Commercial data:**

EAN number:	4260363241267
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9359-5-USB	PG-USB CP-525-adapter for PG-USB-cable <-> CP-525-communication	39,- €

variant:		
Art. ID.	name	price
9359-5	CP-525-adapter for PG-UNI + PG-UNH-II-cable <-> CP-525	39,- €

CP525-K-adapter

- The CP525-adapter is an additional adapter to the PG-Uni, PG-Uni-II
- Connection to the communication port of the CP525
- This adapter is also suitable for a CP524 and SA523/525
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm



Commercial data:

EAN number:	4260363241427
HS-code:	85444290

article:		
Art. ID.	name	price
9359-5K	CP-525-K-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	39,- €

variant:		
Art. ID.	name	price
9359-5K-USB	PG-USB CP-525-K-adapter for PG-USB-cable <-> CP-525-communication	39,- €

CP525-K-adapter for PG-USB

- The CP525-adapter is an additional adapter to the PG-USB
- Connection to the communication port of the CP525
- This adapter is also suitable for a CP524 and SA523/525
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm



Commercial data:

EAN number:	4260363243292
HS-code:	85444290

article:		
Art. ID.	name	price
9359-5K-USB	PG-USB CP-525-K-adapter for PG-USB-cable <-> CP-525-communication	39,- €

variant:		
Art. ID.	name	price
9359-5K	CP-525-K-adapter for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	39,- €

NET-adapter

- Generates new current sources for the communication
- Operation area: damaged current sources, not existing current sources, sanded current sources, passiv interfaces, ...
- External power supply



Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1 watt
Interfaces:	2 x TTY/20mA current loop (1 x 15pol plug / 1 x 15pol jack)
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	50 x 45 x 15 mm

Commercial data:

EAN number:	4260363240055
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	59,- €

PG-ISO-adapter

- Contact-protected plastic case
- Generates new current sources and a ne ground for the communication
- Galvanic separation between PC and PLC up to 1000V
- Power supply from the PLC



Technical Specifications:

Supply voltage:	5V/DC and/or 24V/DC +/- 20%
Power consumption:	1 watt
Interfaces:	2 x TTY/20mA current loop (1 x 15pol plug / 1 x 15pol jack)
Galvanic separation:	1000V PLC to the PC
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	50 x 45 x 15 mm

Commercial data:

EAN number:	4260363240543
HS-code:	85444290

article:		
Art. ID.	name	price
9359-8	PG-ISO-adapter 1000V galv. separation	89,- €

Sinum-adapter

- The Sinum-adapter is an additional adapter to the PG-Uni, PG-Uni-II or S5-LAN
- This adapter can be used with a 805, 810, 820, 840, 850, 880
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm



Commercial data:

EAN number:	4260363240321
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-6	SINUM-adapter for PG-UNI + PG-UNI-II-cable to SINUMERIK	39,- €

variant:		
Art. ID.	name	price
9359-6-USB	PG-USB SINUM-adapter for PG-USB-cable to SINUMERIK	39,- €

Sinum-adapter for PG-USB

- The Sinum-adapter is an additional adapter to the PG-USB
- This adapter can be used with a 805, 810, 820, 840, 850, 880
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- Length: 10 cm



Commercial data:

EAN number:	4260363240925
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-6-USB	PG-USB SINUM-adapter for PG-USB-cable to SINUMERIK	39,- €

variant:		
Art. ID.	name	price
9359-6	SINUM-adapter for PG-UNI + PG-UNI-II-cable to SINUMERIK	39,- €

V24-adapter

- Contact-protected plastic case
- Generates from the PLC-TTY-port a RS232-port
- Ideal for use with TELE-LINK units to connect a S7-PLC via S7 interface cable
- Power supply from the PLC-TTYport



Commercial data:

EAN number:	4260363242578
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-V24	V24-adapter generates a PLC-V24-interface out of the PLC-TTY-interface, ideal for Tele-Link and S5-Diag	51,- €

WF470-adapter

- The WF470 adapter is an additional adapter to the PG-Uni, PG-Uni-II
- WF470 adapter only in conjunction with a Netz adapter used
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- Length: 10 cm



Commercial data:

EAN number:	4260363241632
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-5-WF470	WF-470-adapter for PG-UNI + PG-UNI-II-cable <-> WF470	39,- €

variant:		
Art. ID.	name	price
9359-5-WF470-USB	PG-USB WF-470-adapter for PG-USB-cable <-> WF470	39,- €

accessories:			
Art. ID.	name	page	price
9359-4	Power-adapter for PG-UNI-cable /UNI-II-cable/S5-LAN++	111	59,- €

WF470-adapter for PG-USB

- The WF470-adapter is an additional adapter to the PG-USB
- Bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- Length: 10 cm



Commercial data:

EAN number:	4260363243285
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-5-WF470-USB	PG-USB WF-470-adapter for PG-USB-cable <-> WF470	39,- €

variant:		
Art. ID.	name	price
9359-5-WF470	WF-470-adapter for PG-UNI + PG-UNI-II-cable <-> WF470	39,- €

PG-UNI lengthening set

- Extend your PG-UNI cable on the PLC side up to 300m
- All parts included except the connection cable
- Instructions and description of the pin configuration included
- Length is selectable arbitrarily / up to 300m



Commercial data:

EAN number: 4260363240413

HS-code: 85444290

Weight: 0.2500 kg

article:		
Art. ID.	name	price
9359-7	PG-UNI - lengthening set complete assembling set	16,- €

PG-UNI-II lengthening set

- Extend your PG-UNI-II cable on the PLC side up to 300m
- All parts included except the connection cable
- Instructions and description of the pin configuration included
- Length is selectable arbitrarily / up to 300m



Commercial data:

EAN number: 4260363242875

HS-code: 85444290

Weight: 0.2500 kg

article:		
Art. ID.	name	price
9359-7-II	PG-UNI-II - lengthening set complete assembling set	29,- €

PG-USB lengthening set

- Extend your PG-USB cable on the PLC side up to 100m
- All parts included except the connection cable
- Instructions and description of the pin configuration included
- Length is selectable arbitrarily / up to 100m



Commercial data:

EAN number: 4260363243353

HS-code: 85444290

Weight: 0.2500 kg

article:		
Art. ID.	name	price
9359-7-USB	PG-USB-lengthening set complete assembling set	29,- €

Analogue cable for PCMCIA TAE-modem

- Plug for PCMCIA-modem card connection
- TAE plug for the phone jack in Germany/USA
- 3m long cable



Commercial data:

EAN number: 4260363242868

HS-code: 85444290

article:		
Art. ID.	name	price
9381.KABEL	Analogue cable for TAE-modem PCMCIA PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	51,- €

ISDN-adapter for analogue terminals

- Easy installation and automatic recognition of dialling procedure used (pulse dialling, tone dialling)
- Can be directly connected to an ISDN multiple device port or to a PABX
- Free internal calls between connected telephones
- Supports keypad-functions
- Full ISDN functionality provided, e.g. call waiting, 3-party conference and toggling
- 2 external calls can be made simultaneously
- 3 numbers (MSN) per analogue port can be configured (up to 6 MSNs possible)
- Display of caller's telephone number (CLIP) and reception of SMS messages (FSK-Verfahren) are possible on suitable telephones



Technical Specifications:

Supply voltage:	via an AC adapter 230V/AC 50Hz
Interfaces:	1 x ISDN Basic Rate Access (DSS1)
	2 x ports for analogue terminals (coding U / F)
	1 x port for analogue terminal (coding N) for additional devices
dialling:	pulse or tone
Case:	plastic case for table operation or wall mounting
Dimensions:	180 x 140 x 45 mm

Commercial data:

EAN number:	4260363241885
HS-code:	85177090

article:		
Art. ID.	name	price
9370-ISDN	ISDN-adapter for analogue terminals full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	251,- €

Fiber optic adapter for differential transmission (G)

- Extend and connect the differential transmission line with fiberglass cable
- Fail-safe by insensitivity to electromagnetic fields
- No sparks through cable breakage or separation
- No crosstalk possible
- Lightning protection guaranteed
- Transfer of TxD and RxD

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Interfaces:	2 x screw terminal for power supply
	4 x screw terminal for differential transmission (RxD and TxD)
	2 x socket for F-SMA fiber optic connector
Maximum connection length:	2,5 km
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	75 x 65 x 30 mm

Commercial data:

EAN number:	4260363242134
HS-code:	85389099

article:		
Art. ID.	name	price
9531-G	Light wire-adapter for glasfibre-cables	198,- €

variant:		
Art. ID.	name	price
9531-K	Light wire-adapter for plasticfibre-cables	173,- €
9532-K	Light wire-adapter RS232 for plasticfibre-cables	690,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	111	39,- €

Fiber optic adapter for differential transmission (K)

- Extend and connect the differential transmission line with plastic cable
- Fail-safe by insensitivity to electromagnetic fields
- No sparks through cable breakage or separation
- No crosstalk possible
- Lightning protection guaranteed
- Transfer of TxD and RxD

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Interfaces:	2 x screw terminal for power supply
	4 x screw terminal for differential transmission (RxD and TxD)
	2 x socket for duplex connectors with or without locking
Maximum connection length:	145 m
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	75 x 65 x 30 mm



Commercial data:

EAN number: 4260363242127

HS-code: 85389099

article:		
Art. ID.	name	price
9531-K	Light wire-adapter for plasticfibre-cables	173,- €

variant:		
Art. ID.	name	price
9531-G	Light wire-adapter for glasfibre-cables	198,- €
9532-K	Light wire-adapter RS232 for plasticfibre-cables	690,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €

Fiber optic adapter for RS232 (plastic cable)

- Extend and connect the RS232 transmission line with plastic cable
- Fail-safe by insensitivity to electromagnetic fields
- No sparks through cable breakage or separation
- No crosstalk possible
- Lightning protection guaranteed
- Transfer of TxD and RxD

**Technical Specifications:**

Supply voltage: 24V/DC +/- 20%

Power consumption: 1,5 watt

Interfaces:

3 x screw terminal for power supply and PE
3 x screw terminal for RS232 transmission (Rx, Tx, GND)
2 x socket for duplex connectors with or without locking

Maximum connection length: 145 m

Operating temperature: 5 - 55°C

Case: powder coated metal case with mounting flange

Dimensions: 75 x 65 x 30 mm

Commercial data:

EAN number: 4260363243193

HS-code: 85389099

article:		
Art. ID.	name	price
9532-K	Light wire-adapter RS232 for plasticfibre-cables	690,- €

variant:		
Art. ID.	name	price
9531-K	Light wire-adapter for plasticfibre-cables	173,- €
9531-G	Light wire-adapter for glasfibre-cables	198,- €

accessories:			
Art. ID.	name	page	price
9391.1	24V DC power-supply unit 625mA Primary 110V - 240 VAC Euro+USA-plug	104	39,- €

PCMCIA-modemcard (analogue)

- BZT-permission (D132754J / CTR21 / CEO560X)
- Transfer rate up to 56000 Bps vollo duplex asynchron
- AT-Hayes instruction set
- Getting an outgoing line with flash or number
- MNP 2-4, V.42 / MNP 5, V.42bis
- Analogue telephone lead included in delivery
- Communication-/fax-software included in delivery



Technical Specifications:

Power consumption:	250 mA
Interfaces:	1 x PCMCIA to PD/PC 1 x analogue connection
Specifications:	CCITT V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.fc, V.34, V.34+, K56flex
Case:	PCMCIA-format 2.0 type II
Dimensions:	85 x 55 x 5 mm
Commercial data:	
EAN number:	4260363241977

article:		
Art. ID.	name	price
9381	TAE-modemPCMCIA-card for TELE-BOOK pcmcia-card inclusive telefon-lead and TAE-adapter	205,- €

options:		
Art. ID.	name	price
9381.KABEL	Analogue cable for TAE-modem PCMCIA PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	51,- €

Prof-II-starting-kit

- For a simple introduction to PLC remote maintenance
- Set consists 11 parts

Content:

- Power adapter 110 - 240V/AC -> 24V/DC
- MPI- / Profibus cable
- S5-cable
- Patch cable
- Cross cable
- Serial cable 9-pin
- Null modem cable
- USB-cable A - A
- USB-cable A - B
- Telephone cable ISDN
- Telephone cable analogue D/USA



Commercial data:

EAN number:	4260363242998
HS-code:	85444290

article:		
Art. ID.	name	price
9372	TELE-PROfessional II Starter-Kit completing 9372-OEM	162,- €

Serial PCMCIA-adapter

- Extend your device to a serial 9 pin interface
- Generates an RS232 interface from a PCMCIA interface
- Transfer rate up to 115.2 kbit/s
- PCMCIA card is completely immersed in the device
- Dimensions: 85 x 55 x 5 mm
- 15 cm cable with 9-pin connector

Commercial data:

EAN number:	4260363242912
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article:		
Art. ID.	name	price
9370-COM	Serial PCMCIA-adapter for TP + TB	205,- €

Modem for dedicated line for TP

- Connects 2 TP-devices directly via a copper cable (phone-net not required)
- Module suitable for direct switch control box wall mount
- Supply of 24V DC
- Dimension: 77 x 66 x 32mm
- Used in pairs



article:		
Art. ID.	name	price
9370-SLM	Leased-line modem for TP only usable as pairs	128,- €

TAE-junction box

- Junction box for analogue telephone signals
- Coding NFF (message device - telephone - telephone)
- Suitable for surface mounting



Commercial data:

EAN number: 4260363242332

article:		
Art. ID.	name	price
9370-TAE	TAE junction box analogue telephone box (NFF) for on-wall mounting	20,- €

Phone-connector-set 16parts

- Content: 13 europeane modem-adapters
- Koskin - (synthetic leather) organizer for quick reference
- Adapts modems to european destinations
- Easy-to-use country selection guide
- Convenient travel pouch holds a few adapters while you travel
- Dimensions of the Koskin-organizer: 255 x 195 x 50 mm



Commercial data:

EAN number: 4260363241755

HS-code: 85444290

article:		
Art. ID.	name	price
9370-SET	Phone-connector-set 16parts worldwide use	230,- €

Telephone cable Belgium

- RJ11 plug for modem connection
- Belgian plug for the phone jack in Belgium
- 3m long cable



Commercial data:

EAN number: 4260363242325

article:		
Art. ID.	name	price
9370-8-BE	Special phone-cable for Belgium RJ12 plug <=> telephone plug of Belgium	23,- €

Telephone cable Germany/USA

- RJ11 plug for modem connection
- TAE plug for the phone jack in Germany/USA
- 3m long cable



Commercial data:

EAN number: 4260363240079

HS-code: 85444290

article:		
Art. ID.	name	price
9370-8-D/USA	Phone-cable analogue Germany+USA RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	10,- €

Telephone cable Denmark

- RJ11 plug for modem connection
- Danish plug for the phone jack in Denmark
- 4,5m long cable



Commercial data:

EAN number: 4260363242301

HS-code: 85444290

article:		
Art. ID.	name	price
9370-8-DK	Special phone-cable for Denmark RJ12 plug <=> telephone plug of Denmark	23,- €

Telephone cable France

- RJ11 plug for modem connection
- F010 plug for the phone jack in France
- 4,5m long cable



Commercial data:

EAN number: 4260363242318

article:		
Art. ID.	name	price
9370-8-FR	Special phone-cable for France RJ12 plug <=> telephone plug of France	23,- €

Telephone cable Great Britain

- RJ11 plug for modem connection
- 631A plug for the phone jack in Great Britain
- 3m long cable



Commercial data:

EAN number: 4260363242264

article:		
Art. ID.	name	price
9370-8-GB	Special phone-cable for Great Britain RJ12 plug <=> telephone plug of Great Britain	23,- €

Telephone cable ISDN

- RJ45 connector - RJ45 connector
- 1 : 1 connected through
- Flatband cable black
- 3m long cable



Commercial data:

EAN number: 4260363243261

article:		
Art. ID.	name	price
9370-8-ISDN	Phone-cable ISDN RJ45 plug <=> RJ45 plug, assigned 1to1	10,- €

Telephone cable Netherlands

- RJ11 plug for modem connection
- M.W. PTT DHZ doos plug for the phone jack in the Netherlands
- 4,5m long cable



Commercial data:

EAN number: 4260363242295

article:		
Art. ID.	name	price
9370-8-NL	Special phone-cable for Netherlands RJ12 plug <=> telephone plug of the Netherlands	23,- €

Telephone cable Switzerland

- RJ11 plug for modem connection
- Reichle plug for the phone jack in Switzerland
- 3m long cable



Commercial data:

EAN number:

article:		
Art. ID.	name	price
9370-8-CH	Special phone-cable for Switzerland RJ12 plug <=> telephone plug of Switzerland	23,- €

Telephone cable Austria

- RJ11 plug for modem connection
- TDO plug for the phone jack in Austria
- 3m long cable



Commercial data:

EAN number:	4260363242288
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9370-8-AT	Special phone-cable for Austria RJ12 plug <=> telephone plug of Austria	23,- €

Cross-cable

- Connect two ethernet devices directly
- Foil shielded twisted pair cable
- With bend protection at the plug endings
- RJ45 plug - R45 plug
- Pinout for EIA/TIA 56813
- Length: 3m



Commercial data:

EAN number:	4260363243483
HS-code:	85444290

article:		
Art. ID.	name	price
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	10,- €

variant:		
Art. ID.	name	price
9636-TCPIP.02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	14,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	10,- €

Patch cable

- Connect your ethernet device with a HUB/Switch or a wall plate
- Foil shielded twisted pair cable
- With bend protection at the plug endings
- RJ45 plug - R45 plug
- Pinout for EIA/TIA 568
- Length: 3m



Commercial data:

EAN number:	4260363243476
HS-code:	85444290

article:		
Art. ID.	name	price
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	10,- €

variant:		
Art. ID.	name	price
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	10,- €
9636-TCPIP.02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	14,- €

Patchcable 0.25m

- Connect your S7-WLAN-Bridge with a S7-LAN on the shortest way
- Foil shielded twisted pair cable
- With bend protection at the plug endings
- RJ45 plug - R45 plug
- Pinout for EIA/TIA 568
- Length: 0,25m



Commercial data:

EAN number:	4260363243995
HS-code:	85444210
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9636-TCPIP.02M	Patch-cable 0.25m, Cat5e, shielded RJ45 plug <=> RJ45 plug, 1:1	14,- €

variants:		
Art. ID.	name	price
9636-CROSS	Cross-cable 3m Cat5+, shielded RJ45 plug <=> RJ45 plug, twisted pinning	10,- €
9636-TCPIP	Patch-cable 3m, Cat5+, shielded RJ45 plug <=> RJ45 plug, 1:1	10,- €

USB 2.0 connection cable type A/A

- Suitable for USB 1.1 / 2.0 up to 480 Mbps
- Connector type A to connector type A
- Length: 3m



Commercial data:

EAN number:	4260363242967
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9352.1	USB-cable plug/plug type A-A 3m USB 1.1 / 2.0 up to 480 MBit	10,- €

variant:		
Art. ID.	name	price
9352.2	USB-cable plug/plug type A-B 3m USB 1.1 / 2.0 up to 480 MBit	10,- €
9352.3	USB-cable plug/plug type A-B-Mini 3m USB 1.1 / 2.0 up to 480 MBit	23,- €

USB 2.0 connection cable type A/B

- Suitable for USB 1.1 / 2.0 up to 480 Mbps
- Connector type A to connector type B
- Length: 3m



Commercial data:

EAN number:	4260363243469
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9352.2	USB-cable plug/plug type A-B 3m USB 1.1 / 2.0 up to 480 MBit	10,- €

variant:		
Art. ID.	name	price
9352.1	USB-cable plug/plug type A-A 3m USB 1.1 / 2.0 up to 480 MBit	10,- €
9352.3	USB-cable plug/plug type A-B-Mini 3m USB 1.1 / 2.0 up to 480 MBit	23,- €

USB 2.0 connection cable type A/Mini B

- Suitable for USB 1.1 / 2.0 up to 480 Mbps
- Connector type A to connector type Mini-B
- Length: 3m



Commercial data:

EAN number:	4260363240628
HS-code:	85444210
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9352.3	USB-cable plug/plug type A-B-Mini 3m USB 1.1 / 2.0 up to 480 MBit	23,- €

variants:		
Art. ID.	name	price
9352.1	USB-cable plug/plug type A-A 3m USB 1.1 / 2.0 up to 480 MBit	10,- €
9352.2	USB-cable plug/plug type A-B 3m USB 1.1 / 2.0 up to 480 MBit	10,- €

RS232

COM1 : COM2 - adapter

- 9pins (male) - 25pins (female)
- 4 screws for mounting
- Dimensions: 65 x 55 x 15 mm



Commercial data:

EAN number:	4260363242530
HS-code:	85444290

article:		
Art. ID.	name	price
9359-9	Adapter COM 1 : COM2 9pin (male) - 25pin (female)	17,- €

COM2 : COM1 - adapter

- 25pins (male) - 9pins (female)
- 4 screws for mounting
- Dimensions: 65 x 55 x 15 mm



Commercial data:

EAN number:	4260363242523
HS-code:	85444290

article:		
Art. ID.	name	price
9359-9.M	Adapter COM 1 : COM2 25pin (male) - 9pin (female)	17,- €

Null-modem-cable

- Ideal for connecting PC to PC
- For other applications suited as well by the crossed contact
- TXD -> RXD / RXD -> TXD
- 9pol D-Sub-jack - 9pol D-Sub-jack
- Length: 3 m



Commercial data:

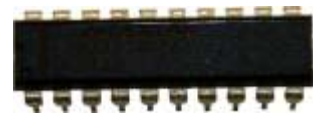
EAN number:	4260363242226
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.0	Null-modem-cable 9-pin D-SUB D-SUB 9pins (female) <=> D-Sub 9pins (female), rotated assignment (null modem)	23,- €

variant:		
Art. ID.	name	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	23,- €

RS232 / V24 converter module

- Replacement component for your PG-COM and PG-UNI
- Converts TTL signals to RS232
- Module in DIL20 housing



Commercial data:

EAN number:	4260363242417
HS-code:	85421355

article:		
Art. ID.	name	price
9359-MAX233	RS232 / V24 chip for interfacecable	5,- €

Serial cable 9-pin

- Ideal for connecting our serial devices to the PC
- For other applications suited as well by the 1 : 1 contact
- 9pol D-Sub-plug - 9pol D-Sub-jack
- Length: 3 m



Commercial data:

EAN number:	4260363242479
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359.1:1	1:1 cable 9pins D-SUB D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	23,- €

Servicebag for Mini-/Flash-Prommer

- For the MINI-Prommer and FLASH-Prommer applicable
- Everything for the MINI-/FLASH-Prommer in one bag stowable
- Equipped with a handle for comfortable transport
- Robust zipper for opening and closing
- Washable surface



Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device
	1 x rubber strap for the cables
	1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	200 x 175 x 65 mm
Commercial data:	
EAN number:	4260363241519
HS-code:	42029180

		article:	
Art. ID.	name	price	
9363-6	Servicebag MINI-PROMMER + FLASH-PROMMER	33,- €	

Servicebag for MULTI-Prommer

- For the MULTI-Prommer applicable
- Everything for the MULTI-Prommer in one bag stowable
- Equipped with a handle for comfortable transport
- Robust zipper for opening and closing
- Washable surface



Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device
	1 x rubber strap for the cables
	1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	280 x 325 x 100 mm
Commercial data:	
EAN number:	4260363241656
HS-code:	42029180

		article:	
Art. ID.	name	price	
9363-7	Servicebag for MULTI-PROMMER	56,- €	

Servicebag for PG-MUX-II

- For the PG-MUX-II applicable
- Everything for the PG-MUX-II in one bag stowable
- Equipped with a handle for comfortable transport
- Robust zipper for opening and closing
- Washable surface



Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 1 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	265 x 260 x 55 mm
Commercial data:	
EAN number:	4260363241540
HS-code:	42029180

article:	
Art. ID.	name
9361-6	Servicebag for PG-MUX-II
price	
59,- €	

Servicebag für TB, TP, TP-II-Flat

- For the TB, TP, TP-II applicable
- Everything for the TB, TP, TP-II in one bag stowable
- Equipped with a handle for comfortable transport
- Robust zipper for opening and closing
- Washable surface



Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 3 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	325 x 325 x 60 mm
Commercial data:	
EAN number:	4260363242608
HS-code:	42029180

article:	
Art. ID.	name
9371-6	Servicebag for TP, TB + TP-II-FLAT
price	
59,- €	

Antennas / Accessories

Connection-cable for beam/sector antenna

- Cable connection: N-plug Male to RP-SMA-plug Female
- Cable type RF-240
- Cable length: 3m
- Speciallength (up to 20m) on request



Commercial data:

Weight:	0.1000 kg
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article:	
Art. ID.	name
9352-ALF-KABEL	Connection-cable for beam/sector antenna cable length: 3m
price	
49,- €	

Magnetic base antenna for ALF

- Screw on the connector RP-SMA to ALF
- Signal gain 9dBi
- Magnetic base for mounting on the cabinet, etc.
- Length of the cable (HDF100): 1,5m
- Dimensions: ca. 15 x 250 mm



Commercial data:

EAN number:	4260363240659
HS-code:	84733080
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9352-ALF-ANT	Magnetic base antenna for ALF cable length: 1,5m	78,- €

Magnetic base antennas-set for Toni

- Both antenna-types with its own magnetic-base-antenna prolongable
- Every screw on the connector RP-SMA and SMA to Toni
- Signal gain 2dBi
- Magnetic base for mounting on the cabinet, etc.
- Length of the cable: 2m
- Dimensions: ca. 27 x 87 mm



Commercial data:

EAN number:	4260363243841
HS-code:	85177011
Weight:	0.5000 kg

article:		
Art. ID.	name	price
9352-TONI-ANT	Magnetic base antenna-set for Toni for WiFi and 3G-connectors cable length: 2m	98,- €

Magnetic base antenna

- Screw on the connector GSM/FME(f) to the S7-WLAN-Bridge
- Water-proof IP65
- Magnetic base (3x neodyn magnet) for mounting on the cabinet, etc.
- Length of the cable (RG174): 3m
- Dimensions: ca. 70 x 15 mm, cable diameter: 2,7mm



Commercial data:

EAN number:	4260363244152
HS-code:	85177015
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9352-WLAN-ANT	Magnetic base antenna for S7-WLAN-Bridge, WLAN-Klemme cable length: 3m	78,- €

Magnetic base antenna

- Screw on the connector to the modem
- Magnetic base for mounting on the cabinet, etc.
- Length of the cable: 2,5m

Commercial data: 70 x 30 x 30 mm

EAN number:	4260363243537
HS-code:	85291020



article:		
Art. ID.	name	price
9379-ANT	Magnetic base antenna for TP, TS + MPI-Modem	24,- €

Beam antenna for ALF

- Power gain 20dBi
- Suitable for point-to-point or point-to-base connections
- Outdoor use possible
- Housing cladding made of robust, weatherproof and UV-resistant plastic
- Stainless steel back side of the antenna
- Mounting bracket with adjuster and a pipe clamp (30-50mm) included
- Connection cable optional
- Antenna connector: N female



Commercial data:

Weight: 0.1000 kg

article:		
Art. ID.	name	price
9352-ALF-RICHTANTENNE	Beam antenna for ALF Beam antenna with 20dBi power gain for classic radio link connection cable optional	119,- €

Sector antenna for ALF

- Power gain 20dBi
- Bundled radiation into the from the signal angle of the antenna generated sector
- Outdoor use possible
- Housing cladding made of robust, weatherproof and UV-resistant plastic
- Stainless steel back side of the antenna
- Mounting bracket with adjuster and a pipe clamp (30-50mm) included
- Connection cable optional
- Antenna connector: N female



Commercial data:

Weight: 0.1000 kg

article:		
Art. ID.	name	price
9352-ALF-SEKTORANTENNE	Sector antenna for ALF Sector antenna with 17dBi power gain and bundled radiation. Connection cable optional	179,- €

WLAN-booster

- Compact unit for increasing the range of 2.4 GHz wireless devices
- Tx Linear output Power
 - 500 mW / +27 dBm max. @ 11g
 - 800 mW / +29 dBm max. @ 11b
- Increases the signal range to achieve more range of the used devices
- Easy to screw on the antenna connector instead of the stub antenna of ALF
- Antenna itself rotatable and bendable
- LED indicators for power and Rx/Tx
- 230V AC adapter included



Note:

According with the existing german regulations, a wireless device may not exceed the radiated power (EIRP) of 20 dBm (100mW). Please note the telecommunication law in your country.

Commercial data:

EAN number: 4260363243780

HS-code: 84733080

Weight: 0.2500 kg

article:		
Art. ID.	name	price
9352-ALF-BOOSTER	500mW-booster for ALF Pen-Booster wih antenna to increase the range. Note: According to the existing german regulations, a wireless device may not exceed the radiated power (EIRP) of 20 dBm (100mW). Please note the telecommunication law in your country.	109,- €

Replacement lamp for LG07



Commercial data:

EAN number: 4260363242387

article:		
Art. ID.	name	price
9363-3-LAMPE	Replacement lamp for LG-07 UV-tube with G23-plug base	85,- €

Replacement lamp for UVL3



Commercial data:

EAN number: 4260363242394

article:		
Art. ID.	name	price
9363-4-LAMPE	Replacement lamp for UVL3 UV-tube with G4T5-plug	41,- €

PLCC32-adapter

- With this adapter are also flashes in PLCC32 housing plugable in a dual inline socket
- On the dual inline socket continue the usual pin order
- With ejection mechanism of the PLCC32-socket



Commercial data:

EAN number: 4260363242844

HS-code: 85444290

article:		
Art. ID.	name	price
9363-13	PLCC32-adapter for MULTI-Prommer	225,- €

PLC-connection cable

- Connecting your Allen-Bradley controller to the PC
- 9pol D-Sub-jack - 9pol D-Sub-jack
- Length: 3 m



Commercial data:

EAN number: 4260363243445

HS-code: 85444290

Weight: 0.2000 kg

article:		
Art. ID.	name	price
9359.AB	PLC-connecting cable PC <-> Allen-Bradley	28,- €

iBx-PLC cable

- 15pol jack for the PD side
- 15pol plug for the AG side
- Both sides with plastic cases
- Dimensions of the plastic cases: 45 x 40 x 15 mm
- In the variants 1 x 45° cable outlet / 2 x 45° cable outlet



Commercial data:	
EAN number:	4260363241717
HS-code:	85444290
Weight:	0.4000 kg

article:		
Art. ID.	name	price
9530-9S	iBx-SPS-cable to PLC 3m one side angled, other side straight cable tap	38,- €
9530-9WS	iBx-SPS-cable to PLC 3m bothside 45° angle	38,- €

S5-cable

- 15pol jack for the PD side
- 15pol plug for the AG side
- Both sides with plastic cases
- Dimensions of the plastic cases: 45 x 40 x 15 mm
- In the variants 3m / 5m / 6m / 10m



Commercial data:	
EAN number:	4260363241212
HS-code:	85444290
Weight:	0.4000 kg

article:		
Art. ID.	name	price
9361-3	S5-connecting cable 3m for TELE-PROF, MINI-PG-MUX-II	38,- €
9361-3.05M	S5-connecting cable 5m for TELE-PROF, MINI-PG-MUX-II	43,- €
9361-3.06M	S5-connecting cable 6m for TELE-PROF, MINI-PG-MUX-II	46,- €
9361-3.10M	S5-connecting cable 10m for TELE-PROF, MINI-PG-MUX-II	56,- €

Tele-CP cable

- Is part of the H1, L1, L2 option for the TP and TB
- Connect the PG TTY interface of the TP and TB with the CP
- Slide lock for fixing
- 15-pin (male) - 15-pin (male)
- Length: 3 m



Commercial data:	
EAN number:	4260363241571
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9359-90	CP-cable connects PD-TTYport of TP-I, TP-II with L1,H1,L2-CP, D-Sub 15pin (male) <=> D-Sub 15pin (male)	49,- €

CheapConn-plug with 24V-cable-output

- Picks up the 24V voltage pins of the connected subscriber
- Returns all 9 pins 1to1
- Screw bolts to screw with the plugged subscriber
- Inside screened housing
- 90° cable-outlet
- Cable length: 1m
- Special length on demand



Commercial data:

EAN number:	4260363240642
HS-code:	85444290
Weight:	0.1000 kg

article:		
Art. ID.	name	price
9350-9-CHP-24V-OUT	CheapConn Busconnector with 24V-cable-output Comfortable power supply for ALF, TONI and WLAN-Klemme	69,- €

Option CheapConn for MPI cables

- Connect your CheapConn with one of our MPI cable for parallel programming on the bus
- Plug in with simple and mix-up-proof standardized connectors to the MPI cable
- Consisting of the CheapConn connection cable and a CheapConn
- Fully assembled and ready for mounting on the MPI cable
- 9-pin 1 : 1 plated-through
- Screen connected through
- Length: 0.5 m



Commercial data:

EAN number:	4260363241311
HS-code:	85444290
Weight:	0.2000 kg

article:		
Art. ID.	name	price
9350-9-CHP-CC	Option CheapConn for MPI 9350-9-CHP+9350-9-CHP-K already mounted	35,- €

accessories:			
Art. ID.	name	page	price
9350-9-CHP	CheapConn Busconnector for PROFIBUS	44	25,- €
9350-9-CHP-K	Connecting cable MPIx to CheapConn 9-pins 1 : 1 plated-through with shield	108	5,- €

Trading Conditions

1. General information

These general trading conditions are the basis of all deliveries. We do not recognize opposing or otherwise deviating conditions of the orderer of their validity we did not agree expressly in writing. Our trading conditions apply also to all future contractual relations with the orderer.

2. Quotation

The prices specified in the confirmation of order are binding. If there are substantial changes at expiration from 4 months after conclusion of a contract, for example rates of duty and taxes (excluded taxes from profit and fortune) or by foreign exchange-management or currency crises, which make a supply to the originally confirmed price unreasonable, PROCESS-INFORMATIK reserves itself the right to adapt prices of not-delivered goods. Supply contracts are effective only if they are confirmed in writing. The supply takes place on at the prices and conditions of the written confirmation of order. The prices are ex works 73116 Wäscheneuren.

3. Dates of delivery

Dates of delivery are taken into account by PROCESS-INFORMATIK according to the delivery opportunities. In the case of default of delivery the orderer has the right to resignation under exclusion of further rights, after setting a period of grace. The right to resignation does not exist if PROCESS-INFORMATIK cannot keep the subsequent delivery period without getting into debt.

4. Transport

In all cases the danger will go over the orderer after dispatch of the goods. During return of the goods the orderer also takes the transport risk up to the arrival of the goods at PROCESS-INFORMATIK.

5. Terms of payment

Payments take place within 14 days starting from invoice date with 2% discount or within 30 days net without any deduction. Expect from any discount are invoices for rent, repairs, customer service and service contracts which have to be paid within 10 days without any deduction. Starting from 11. and/or 31. day we reserve ourselves to compute interest on demands for purchase without reminder in accordance with § 452 BGB and 353 HGB.

6. Warranty and liability

PROCESS-INFORMATIK ensures that the sold goods are free of material and factory defects at the time of the passage of the risk. Warranty claims are to be made valid within one year starting from the delivery of the goods. The obligation of warranty is from PROCESS-INFORMATIK - after their choice - limited to repair or substitution of defect goods. If the rework of replacement misses twice the orderer is entitled to make valid the legal warranty claims. The orderer commits himself to examine the supplied goods immediately after arrival. Does it show up an obvious defect, which is to due to material or factory defects, he has to indicate these immediately and send the goods back to PROCESS-INFORMATIK, if the orderer is a merchant in the sense of the law, then this has to happen at his expense. Any warranty is excluded, if the orderer or a third makes changes of any kind or repairs at the goods or the goods are treated inappropriately. Excluded from the guarantee are safety devices, batteries, ceramic and glass-technical elements and other consume material. Any liabilities from PROCESS-INFORMATIK going beyond it, alike from which legal reason, in particular also for indirect and sequel damages, is impossible unless, it been based on a violation of contract because of gross indeptedness for on the part of PROCESS-INFORMATIK. However in supply of used

things the warranty and liability is excluded from PROCESS-INFORMATIK.

7. Reservation of proprietary rights

PROCESS-INFORMATIK reserves expressly itself the property to the supplied goods up to the full payment of all demands which resulted or will result from business relations to the purchaser. The purchaser cannot acquire property at supplied goods by installation into other devices. As far as the supplied goods are processed before payment it remains in every process level also as finished goods property of the supplier. Every processing takes place for PROCESS-INFORMATIK. Reservation of proprietary rights in accordance with § 950 BGB is excluded because the orderer acquires the property for the supplier and only keep all the material for him. With installation in new goods by the purchaser PROCESS-INFORMATIK will become part owner at the new developed products in the relationship of the value of their goods to the along-used new goods. The products developed in such way are considered as reservation goods of PROCESS-INFORMATIK.

The purchaser is entitled to the resale of the supplied commodity or the article developed from the processing at anytime revocably in the context of its normal business concern. In the interest of safety the purchaser already now surrenders to PROCESS-INFORMATIK all demands with auxiliary rights which are entitled to him from resale and the business relation to its customers in connection with resale in particular the property or joint property at the mixed articles or the new article. If proviso goods stand in joint property of PROCESS-INFORMATIK after installation or processing the goods have to be assigned. The purchaser is at any time revocably authorized and obligated to draft in the assigned demands. In so far PROCESS-INFORMATIK will release security, as their value of all demands which can be secured exceeds around more than 25%. Up to the complete payment the goods may neither be pawned nor conveyed without written agreement of the supplier. Does a resale takes place before complete payment indifferently whether unprocessed or processes so this may take place only under reservation of proprietary rights.

8. Regulation on exports

The supplied goods are subject to German export control regulations. The purchaser is responsible for the adherence to the relevant regulations up to the ultimate consumer.

9. Customs papers

In the context of the customs transactions the purchaser carries the responsibility for the correctness of the data given by him.

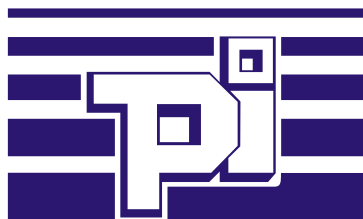
10. Place of performance and court of jurisdiction

Place of performance and court of jurisdiction in the procedure of reminder is Göppingen as well as if the purchaser moves out of Germany after conclusion of the contract or his usual stay during complaint exaltation is unknown. Is the purchaser registered in the trade register as merchant, legal entity of the public right or public-legal special estate thus applies the court of jurisdiction is Göppingen without the restriction of the sentence 1.

Price in €+ packaging + transport + insurance + VAT.

by letter, mail or fax

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Entwicklungsgesellschaft mbH
- Customer service -
Im Gewerbegebiet 1

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Germany

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Delivery date wanted

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Cargo insurance 0,5% from the value of goods
are not wanted. I am self insurer. ☐

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Pos.	Qty	Order-No.	Article description	Single price €	Total price €
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02					
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