Handling-Shortinstruction V1.0 for

CONNECT protocol converter



Power connection :

Voltage:	$24~V~DC\pm20\%$
power consumption :	1,2W

Assignment of voltage plug :



Initial start-up:

- CONNECT protocol converter creates a WLAN network with an SSID "CONNECT WiFi" with active DHCP master (laptop is automatically assigned an IP address)
- Connect laptop to this WiFi network and open with browser webserver with IP: http://192.168.2.1
- or
- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

Starting page:

commissioning
Before you can start to use the device you will have to set up some basic settings. Afterwards your device will be immediately ready for the communication. On the page "configuration" you can change these as well as some further settings at any time.
basic configuration In the first step you have the possibility to specify a name for your device. device name:
next

Basic configuration:

Assign a name to the device for identification

Connection to company network:

internet configuration	
Next you have to configure how your d the internet.	evice should establish a connection to
router interface:	LAN-A V
□ IP settings	
IP configuration:	DHCPmanually
IP address:	
subnet mask:	
gateway address:	

Determine the interface to which the company network is connected

IP settings:

- IP-configuration:	DHCP (Parameters come from a DHCP master on the network)
-	Manuell (IP address + subnet mask fields must contain valid values)
- IP address:	IP address of the device
- subnet mask:	Subnet mask of the device
 gateway address: 	Gateway address of the device

Connection to plant network:

peripheral configuration			
In the last step you have to configure how your device should be connected with the plant network, where the H1 participants are connected to.			
interface: LAN-B 🗸			
-IP settings			
IP configuration: ODHCP manually			
DHCP server: 🗹 enable			
IP address:			
subnet mask:			

Determine the interface to which the plant network is connected

IP settings:

- IP-configuration:	DHCP (Parameters come from a DHCP master on the network) Manuell (IP address + subnet mask fields must contain valid values)
- DHCP server:	Device is on this interface itself an DHCP server, parameterization of the server in the menu configuration when first configuration is finished.
IP address:subnet mask:	IP address of the device (optional for H1-nets) Subnet mask of the device (optional for H1-nets)

After the configured data has been adopted, the device automatically restarts and uses the entered data.

Defining the S7-H1 assignment:

After the device has booted up again after the initial configuration, the S7-H1 implementation must be parameterized.

To do this, click in the webserver on the button (couplings) and define the possible connections you need.

Each connection, whether FETCH or WRITE, must be created separately. Confirm each entry with the "+"- symbol and finally, click "save" to apply all entries to the configuration:

couplings									
S7-H1 couplings									
destination IP	source TS	destinatio	protocol	destination MAC	source TSAP	destination TSAP			^
			Fetch 🗸				+	Ŷ	~
							save	clo	ose

There are two basic options for the S7-H1 implementation:

- a separate free IP-address for each connection in the network (requires many free IP-addresses for many connections)

destination IP:	IP address of this connection (must not already be used in the network)
source TSAP:	source TSAP of this connection, may also be empty/not required
destination TSAP:	destination TSAP of this connection, may also be empty/not required
protocol:	Fetch or Write (read or write connection)
destination MAC:	MAC address of the participant to whom this connection is to be established
	format: AA:BB:CC:DD:EE:FF
source TSAP:	source TSAP of this connection as defined in the CP of the S5-PLC
destination TSAP:	destination TSAP of this connection as defined in the CP of the S5-PLC

TSAP generally enter as a HEX number, e.g. 0102 or 4831 without additions !!!

- a common IP-address for each connection and differentiation by source/destination TSAP (IP-address can be that of the device or a separate free IP-address in the network)

destination IP:	IP address of this connection (may also be empty => device IP-address is used)
source TSAP:	source TSAP of this connection, may also be empty/not required
destination TSAP:	target TSAP of this connection, required to distinguish between connections
protocol:	Fetch or Write (read or write connection)
destination MAC:	MAC address of the participant to whom this connection is to be established
	Format: AA:BB:CC:DD:EE:FF
source TSAP:	source TSAP of this connection as defined in the CP of the S5-PLC
destination TSAP:	destination TSAP of this connection as defined in the CP of the S5-PLC

TSAP generally enter as a HEX number, e.g. 0102 or 4831 without additions !!!

Once these connections have been created and saved, the S7-H1 implementation can be used. Changes to the basic configuration can be made in the webinterface in the "Configuration" menu.

More information about the configuration can be found in the device manual on the product page of the Protocol converter S7-TCPIP <=> H1 (ISO)

Under the web-address https://www.process-informatik.de are product specific documentations or software-driver/-tools available to download. If you have questions or suggestions about the product, please don't hesitate to contact us.

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- + Products / docu / downloads
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 - + Remote maintenance
 - + S5
 - + Internet
 - + CONNECT devices
 - + Protocol converter S7-TCPIP <=> H1 (ISO)







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



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.



Running global-data-communication between MPI-PLCs (S7-300/400), is one of these PLCs replaced with a newer PLC with network-interface (S7-1200/1500), this PLC was not able to access this data.

Simply configure the global-data of the "old" PLC via the web-server in the S7-LAN-module. Enter the new PLC as a TCPIP-connection-partner and the module writes/reads the data via PUT/GET from this network-PLC and passes it on as before.



Remote-maintenance of a Siemens-S7-controller with S7-LAN on MPI/Profibus via secure VPN-tunnel and scalable firewall

Detect failure of Profinet-devices



Identify devices that are likely to fail in the near future.

Detect defective devices that no longer respond to PN protocols.

Defective devices are reported by email and logged.

No long troubleshooting thanks to exact station information.

S5 to S5



Coupling S5-controller with PD-port at S5-controller with PD-port via network



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 dont need a direct connect client.