Handling-Shortinstruction V1.0 for

CONNECT protocol converter

Connectors:



WiFi

Power connection 24V DC

optional: SIM-card-slot for LTE

LAN-A: PC for configuration or device/PC for communication

Power-ON

LAN-B: another subnet or client / plant network

on: WiFi active
flashing: WiFi-data transfer

optional: remote-maintenance S1
optional: LTE status display



on: WiFi active
flashing: WiFi data transfer

Power-ON

LAN-A: PC for configuration or device/PC for communication

Power connection 24V DC

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WiFI

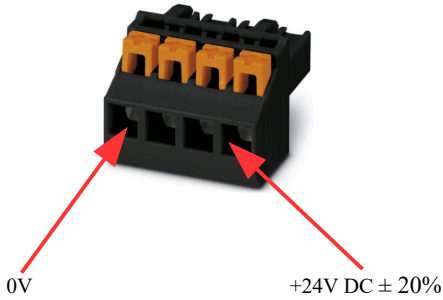
LAN-B: another subnet or client / plant network

optional: remote maintenance S1
optional: LTE status display

Power connection :

Voltage:	24 V DC ± 20%
power consumption :	1,2W

Assignment of voltage plug :



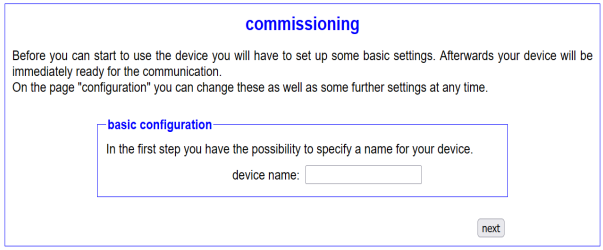
Initial start-up:

- 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

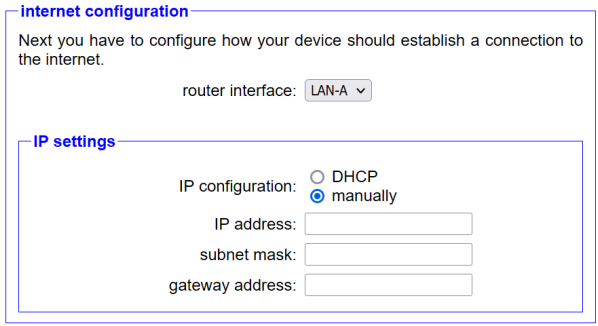
- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

Starting page:



Basic configuration:
Assign a name to the device for identification

Connection to company network:

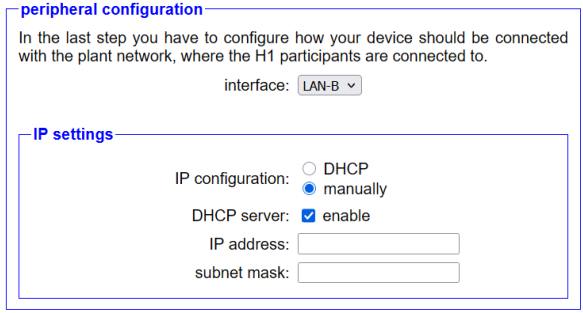


Determine the interface to which the company network is connected

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:



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 confiiguration is finished.
- IP address:	IP address of the device (optional for H1-nets)
- subnet mask:	Subnet mask of the device (optional for H1-nets)

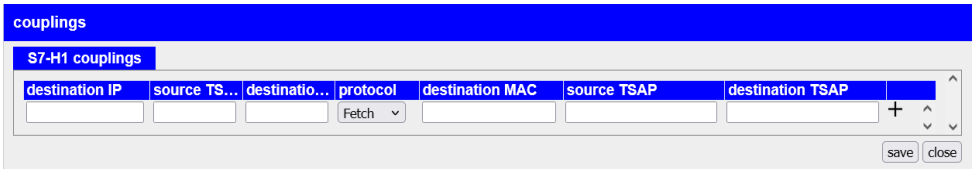
After the configured data has been adopted, the device automatically restarts and uses the entered data.

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:



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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            + Protocol converter S7-TCPIP <=> ISO(H1)

QR-Code Website:





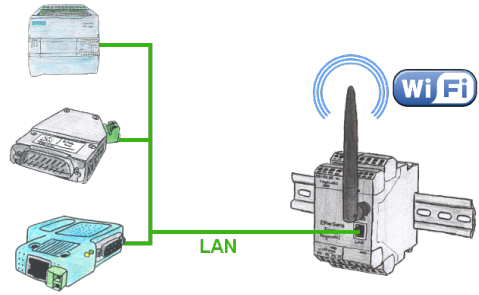
Please make sure to update your drivers before using our products.

S5-PLC over LAN



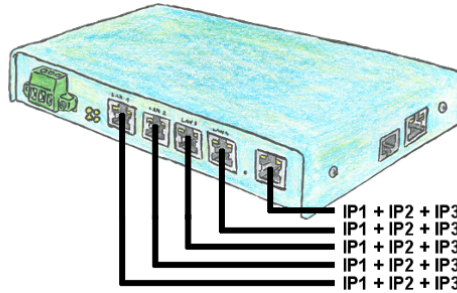
Communication with S5-PLC via Ethernet, just how and with what?
Data-communication with S5-PLC from PC or other devices via network, which interface is required. Questions you don't have to worry about. With "S5 over LAN" you get the right interface-products for your interface of the PLC.
Which one you use then is up to you.

LAN-subscriber to the WiFi



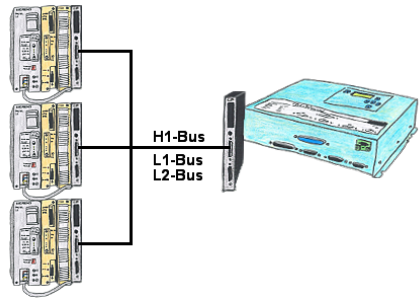
You also need to network devices but dont have locally no ethernet-cable. Wifi is available? With the EtherSens-Bridge you bring immediately all connected wired participants in the WLAN network.

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.

Programming of S5-PLC above H1-, L1- or L2-Bus



You have an existing L1-, L2- or H1-bus on the customer side and have to program parallel the PLCs? No problem, just connect the communication processor (CP) with a monkey swing to the PLC, the Tele-Network-device with the TELE-CP-cable to a free CP and select the needed PLC with PG-path selection. Herefore the L1-, L2- or H1-option is needed.

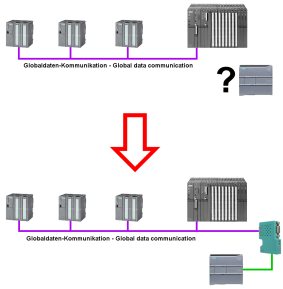
Display diagnostic-buffer without Simatic-Manager



Via the connection-menu and the included bus-device-display, it is possible to display the diagnostics buffer of the respective device without having to open Simatic-Manager or TIA-Portal separately.

The data received from the module is output directly in one piece without the hassle of changing tabs. All data at a glance.

Global data communication (MPI) also with network-PLC



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.