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

optional: SIM-card-slot for LTE

WiFI

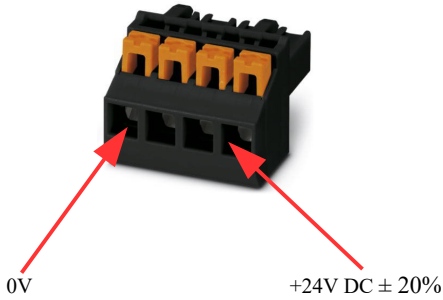
LAN-B: another subnet or client / plant network

optional: remote maintenance S1
optional: LTE status display

Power connection :

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

Assignment of voltage plug :



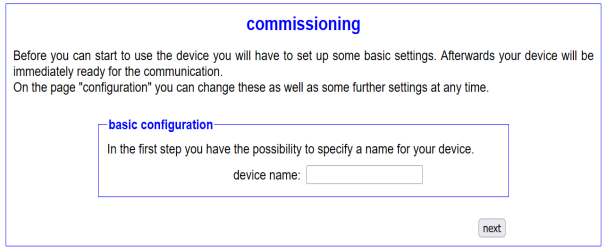
Initial start-up:

- 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

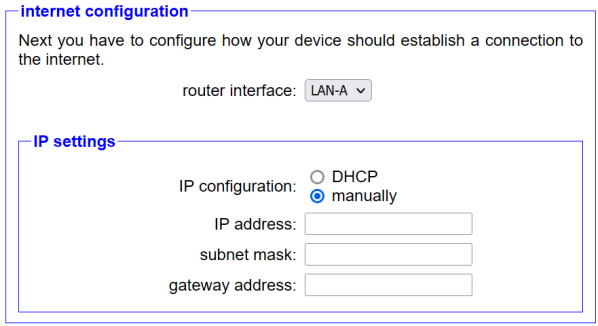
- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

Starting page:



Basic configuration:
Assign a name to the device for identification

Connection to company network:

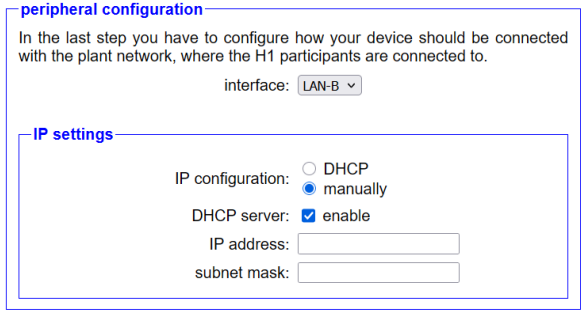


Determine the interface to which the company network is connected

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)

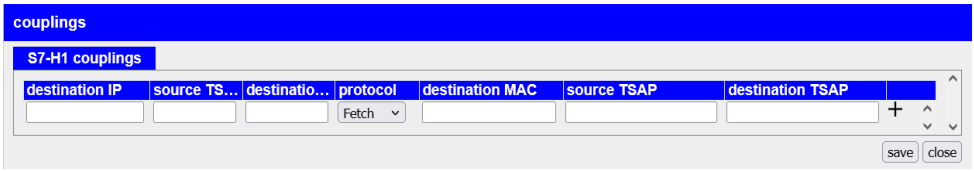
After the configured data has been adopted, the device automatically restarts and uses the entered data.

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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Menutree Website:

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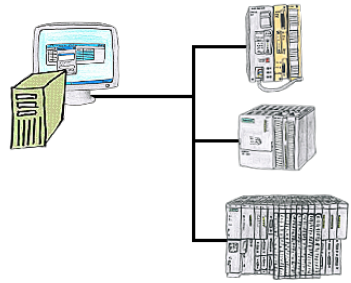
      + S5
        + Internet
          + CONNECT devices
            + Protocol converter S7-TCPIP <=> ISO(H1)

QR-Code Website:

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

Project/history-administration of PLC-programming

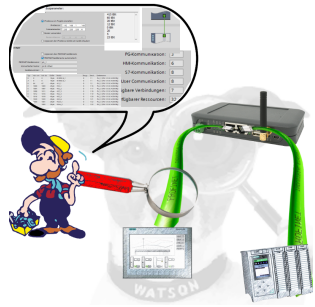


Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will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

Sending ASCII-data to a PC

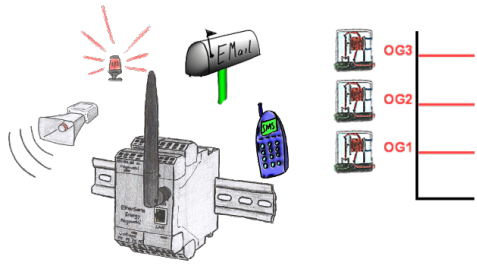
Your car park or control sends the configuration/capacity utilisation to a PC with a modem, so that the data can be used for further processing.

Profinet-Member-Analysis



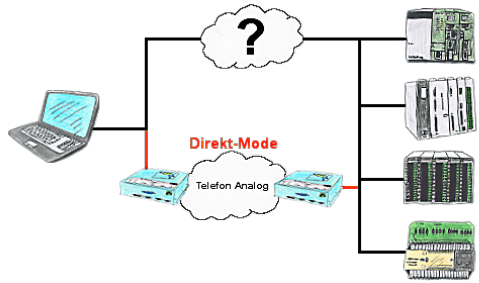
Exact analysis of your Profinet members.
Addresses, configurations and other data can be recorded directly.
See immediately possible conflicts due to the configuration.

Alarming



Dont log with EtherSens-device only the process-values, also monitor them simultaneously. Once a predetermined threshold is exceeded/not reached, the EtherSens-device indicates this.

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.

Without LAN-cable round of the PLC

Your're right in the middle of your production line and and should move around the machine and simultaneously observe / manage. No problem, you parameterize the ALF, connect to the S7-LAN and connect to the WIFI-network of the ALF and are ONLINE on the PLC.