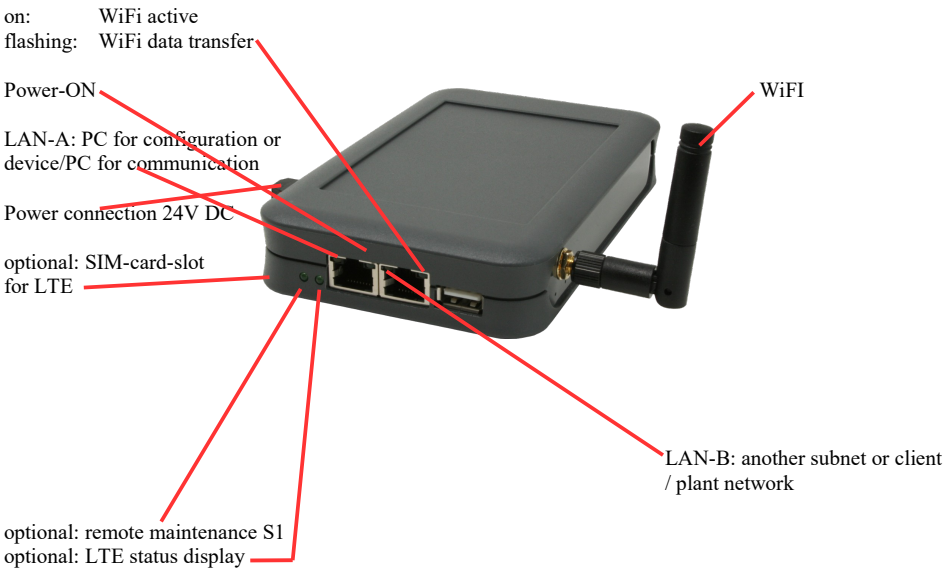
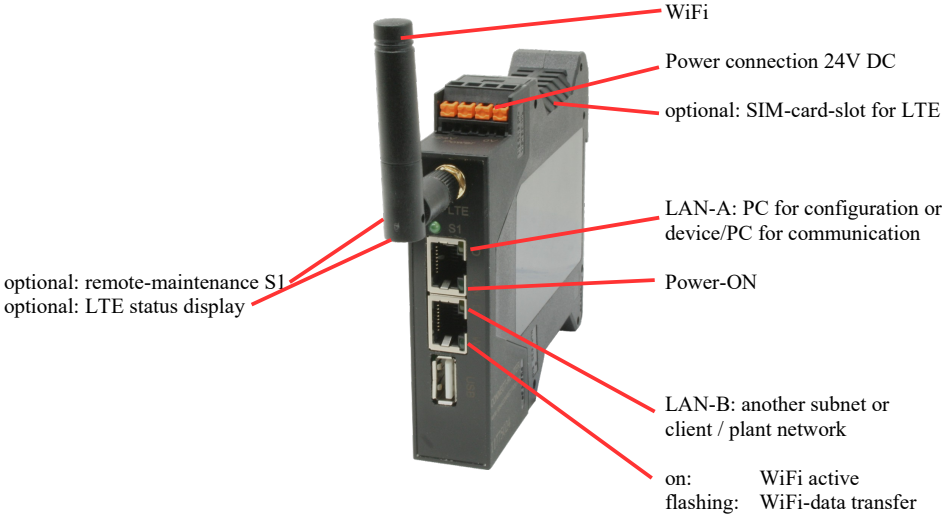


# Handling-Shortinstruction V1.0 for CONNECT protocol converter

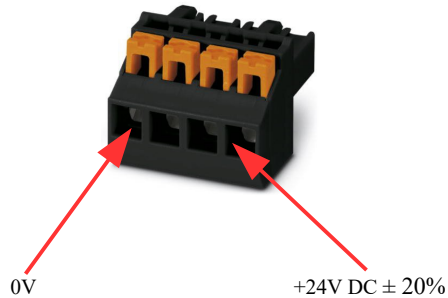
## Connectors:



## Power connection :

Voltage: 24 V DC  $\pm$  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:

**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:

## Basic configuration:

Assign a name to the device for identification

Connection to company network:

**internet configuration**

Next you have to configure how your device should establish a connection to the internet.

router interface:

**IP settings**

IP configuration:  DHCP  
 manually

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:

**IP settings**

IP configuration:  DHCP  
 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 a DHCP server, parameterization of the server in the menu configuration when first configuration is finished.
- IP address: IP address of the device (optional for H1-nets)
- subnet mask: Subnet mask of the device (optional for H1-nets)

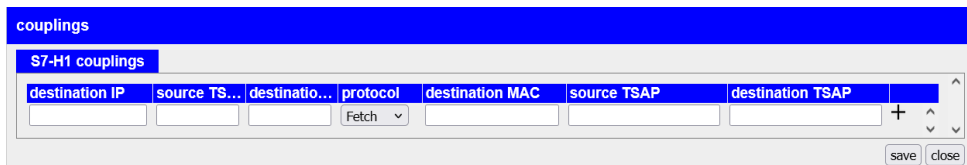
After the configured data has been adopted, the device automatically restarts and uses the entered data.

### 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.

Process-Informatik Entwicklungsgesellschaft mbH

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DE-73116 Wäschenbeuren

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[info@process-informatik.de](mailto:info@process-informatik.de)

<https://www.process-informatik.de>

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**Menutree Website:**

+ Products / docu / downloads

+ Hardware

+ Remote maintenance

+ S5

+ Internet

+ CONNECT devices

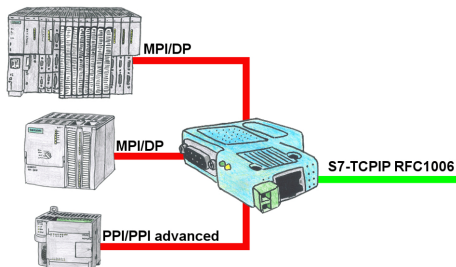
+ Protocol converter S7-TCPIP <=> ISO(H1)

**QR-Code Website:**



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

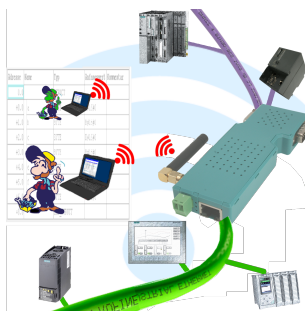
## Address all S7-PLCs (no matter which type) via S7-TCPIP



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

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

## Coupling ProfiNet to MPI/DP inclusive WIFI-interface



Wired or wireless communication (WIFI) via the same adapter with the respective control Devices from the BRIDGE-family always connect a wired-network with a wireless-network (WIFI) and a specific PLC-interface. This gives you access to the directly connected controller via WIFI (with S7 to the entire bus) as well as to the wired Ethernet. Of course also from wired Ethernet to WIFI and control/bus.

Always connected to each other, all made possible by the devices of the BRIDGE-family.

## Management of the IP address

**-IP-Zugriffsschutz**

Schutzmodus:

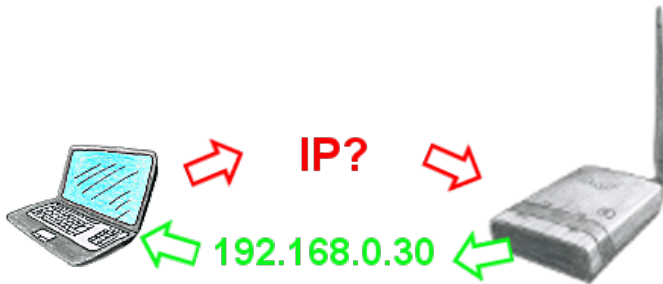
IP-Adresse / IP-Bereich #1:	192.168.178.10	- Bereich (optional)
IP-Adresse / IP-Bereich #2:	192.168.178.100	- 192.168.178.200
IP-Adresse / IP-Bereich #3:	192.168.178.254	- Bereich (optional)
IP-Adresse / IP-Bereich #4:		- Bereich (optional)
IP-Adresse / IP-Bereich #5:		- Bereich (optional)
IP-Adresse / IP-Bereich #6:		- Bereich (optional)
IP-Adresse / IP-Bereich #7:		- Bereich (optional)
IP-Adresse / IP-Bereich #8:		- Bereich (optional)
IP-Adresse / IP-Bereich #9:		- Bereich (optional)
IP-Adresse / IP-Bereich #10:		- Bereich (optional)
IP-Adresse / IP-Bereich #11:		- Bereich (optional)
IP-Adresse / IP-Bereich #12:		- Bereich (optional)
IP-Adresse / IP-Bereich #13:		- Bereich (optional)
IP-Adresse / IP-Bereich #14:		- Bereich (optional)
IP-Adresse / IP-Bereich #15:		- Bereich (optional)

IPs aus Liste verbieten

The IP filter is used to determine whether or not the entered IP-addresses or IP-address-ranges may communicate with the connected controllers via the module.

The list can be edited centrally be switched with a button from "allowed" on "not allowed".

## Integrated dhcp-server



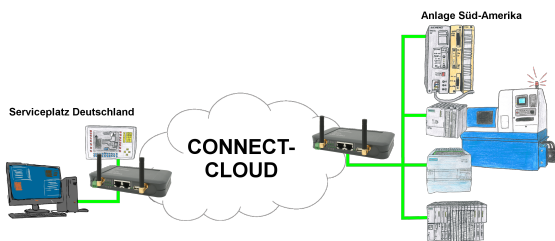
You use your PC in your company network with DHCP, so you don't have to care the everlasting setting of the ip-address. No problem, ALF also can be configured as a DHCP-server and assigns you accessing to the device via LAN or WLAN an ip-address from a predefined address range.

## 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.

## Worldwide remote-access thanks to our own cloud



Worldwide remote-maintenance without additional costs thanks to our own cloud

Your devices connect to your own cloud, no matter where they are in the world. Only your devices are in your own private cloud, no one else has access to the cloud. In addition, you can provide each device with its own connection-password, so that the individual systems are protected despite the private cloud.

No registration on any portals, no hidden additional costs, your devices in your own cloud are always accessible.

This is how remote maintenance/remote access is fun.