Handling-Shortinstruction V1.0 for

CONNECT-IP-Switch

Connectors:

WiFi

Power connection 24V DC

optional: SIM-card-slot for LTE

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

optional: remote-maintenance S1
optional: LTE status display

Power-ON

LAN-B: another subnet or client

on: WiFi active
flashing: WiFi-data transfer

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

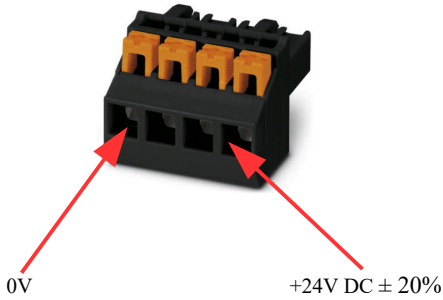
LAN-B: another subnet or client

optional: remote maintenance S1
optional: LTE status display

Power connection :

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

Assignment of voltage plug :



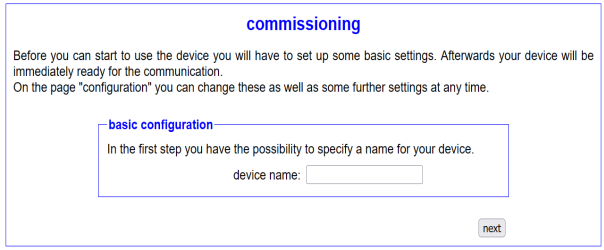
Initial start-up:

- CONNECT-IP-Switch 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

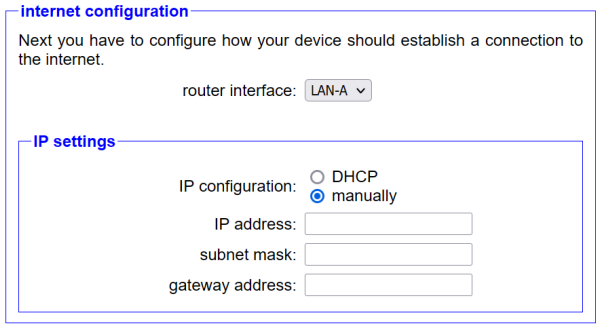
- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

Starting page:



Basic configuration:
Assign a name to the device for identification

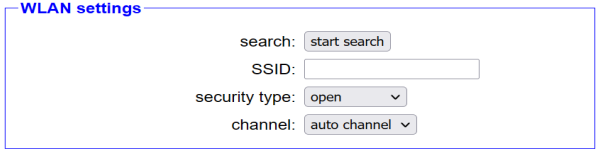
Connection to company network:



Internet-configuration:
Determine the interface to which the target 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

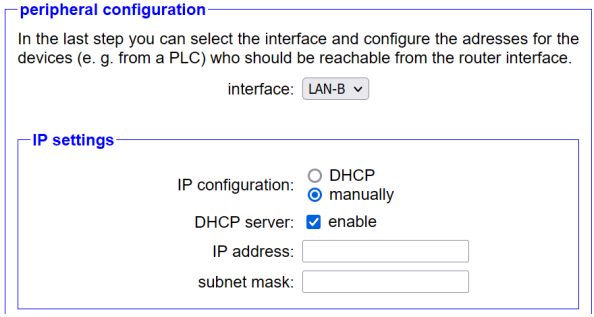


WLAN settings:

- Search:	Searches for accessible WiFI networks and lists them. By clicking on an entry, the selected WiFi network is used for connection	
- SSID:	Name of the connected or created network	
- security type:	Open	(no encryption)
	WEP	(either 5 or 13 ASCII/10 or 26 hexidecimal characters)
	WPA	(8-64 ASCII characters)
	WPA2	(8-64 ASCII characters)
	WPA/WPA2	8-64 ASCII characters (Independent automatic selection whether WPA or WPA2)
- channel:	Selection of the connection channel	

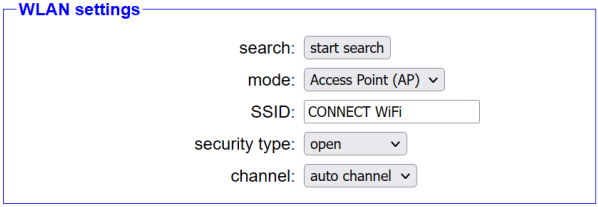
Peripheral configuration:

Interface: Determine the interface that is to be connected to the machine network



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 a DHCP server on the selected interfaces
- IP address: IP address of the device
- subnet mask: Subnet mask of the device

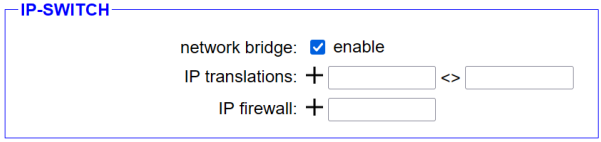


WLAN settings:

- search: Searches for accessible WiFI networks and lists them; by clicking on an entry, the selected WiFi network is used for connection
- mode: Access-Point (AP) [the CONNECT-IP-Switch opens its own WiFi]
  Client [the CONNECT-IP-Switch connects to an existing WiFi network]
- SSID: Name of the connected or created network
- security type: Offen (no encryption)
  WEP (either 5 or 13 ASCII/10 or 26 hexidecimal characters)
  WPA (8-64 ASCII characters)
  WPA2 (8-64 ASCII characters)
  WPA/WPA2 8-64 ASCII characters (Independent automatic selection whether WPA or WPA2)
- channel: Selection of the connection channel

IP-Switch configuration:

Determine the IP addresses or IP address ranges that are to be converted from the machine network into the company network.



- network bridge:	With this option, all IP packets from the company network to the machine network and vice versa are pushed through the CONNECT-IP switch, except for the packets for IP address translation is registered. This option must be deactivated to ensure strict separation of the machine network and the company network!	
- IP translation:	left field:	IP address from the machine network that is to be implemented
	right field:	Converted new IP address from the company network
	The line is accepted with the + symbol and further conversion can be entered	
- IP firewall:	Here you determine whether and which IP addresses from the machine network are allowed to communicate with the company network	

After selecting the configuration, save it in the device and after a short initialization time (max. 10s) the devices are ready for operation.

You can find out more about the operating modes in the device manual on the CONNECT-IP switch product page

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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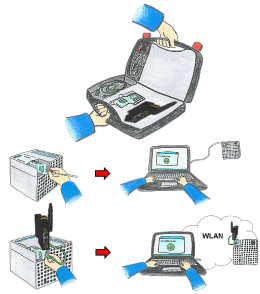
          + CONNECT devices
            + CONNECT-HS-IP-Switch

QR-Code Website:

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

Universally on/around machine and PLC

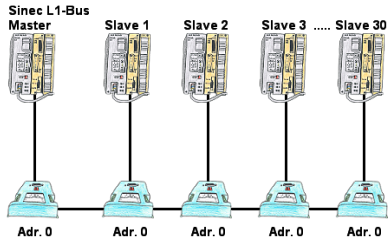


Communication with S5/S7-PLC (mainly), whether wired or via WIFI?
Universally armed for all requirements with the WIFI-sets, regardless of whether it is an S7-PLC, S5-PLC or a controller from another manufacturer with a LAN connection, having everything with you, depending on the used set, is your advantage.

* S5-LAN++ or S5-BRIDGE for S5-PLC
* S7-LAN or S7-BRIDGE for S7-PLC (PPI/MPI/Profibus)
* ALF-UA as a pure converter from Ethernet to WIFI
* Patch-cable or Cross-cable in order to act also wired

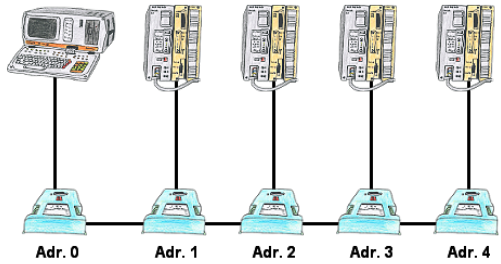
With the WIFI-Set you simply have everything with you in a handy case, be prepared for everything.
This makes (on-site-) work a pleasure.

Sinec-L1-bus configuration without BT-777-terminal



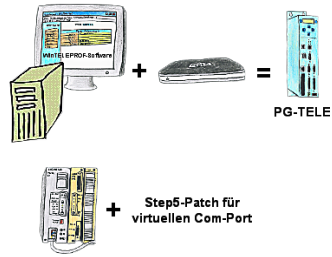
You have to configure a Sinec-L1-bus, own the master, but there's no BT-777-busterminal to buy? No problem, connect the IBX-Klemme to every S5-PLC that is in the run via the optional IBX-SPS-cable, supply every IBX-Klemme with ext. 24V DC if the PLC is not able to provide it, set-up the address 0 and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

Linking of S5-PLC’s without modifying the PLC-program



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.

WinTELEPROF-software = software-PG-TELE



Your'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.