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

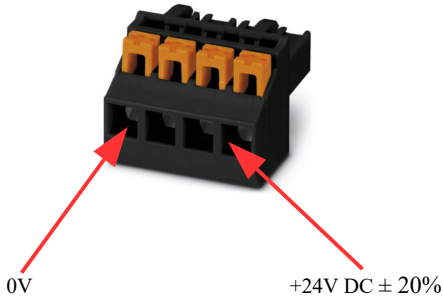
LAN-B: another subnet or client

optional: remote maintenance S1
optional: LTE status display

Power connection :

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

Assignment of voltage plug :



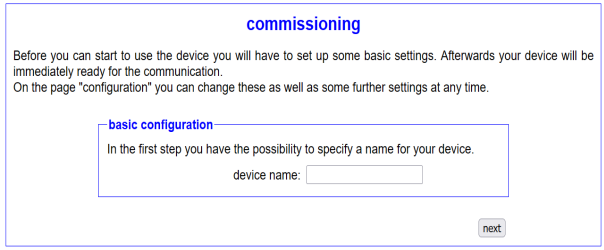
Initial start-up:

- 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

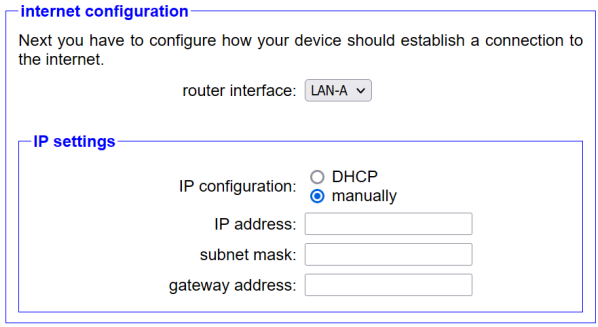
- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

Starting page:



Basic configuration:
Assign a name to the device for identification

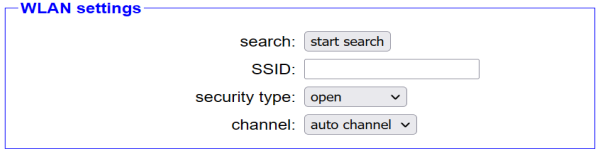
Connection to company network:



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

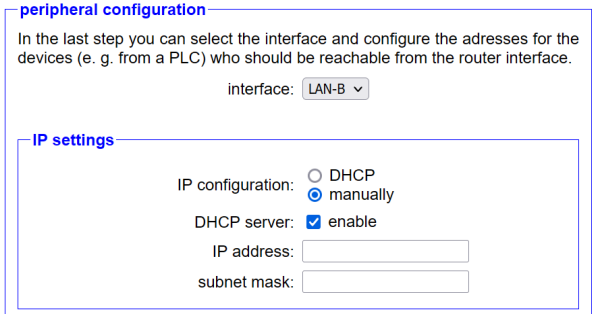


WLAN settings:

- 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	

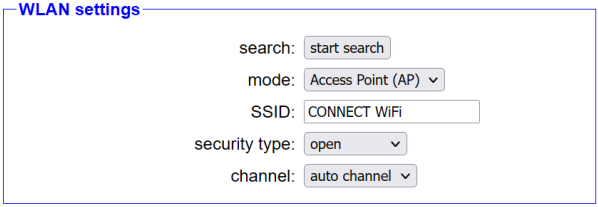
Peripheral configuration:

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

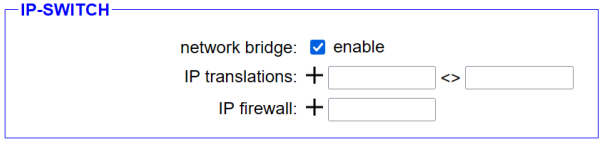


WLAN settings:

- 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

https://www.tpa-partner.de

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Menutree Website:

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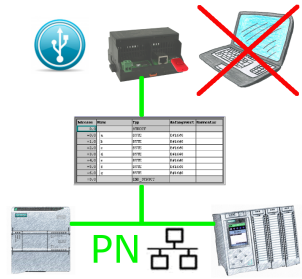
    + Remote maintenance
      + S5
        + Internet
          + CONNECT devices
            + CONNECT-HS-IP-Switch

QR-Code Website:

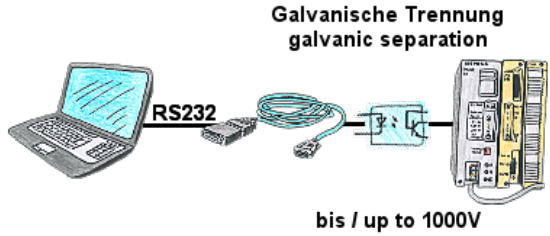
Please make sure to update your drivers before using our products.

DB-Backup/Restore S7-PLC PN-port on USB-stick via dig. IO



Via digital input triggered DB-backup/-restore without additional PC via PN-port to USB-stick

Galvanic coupling to the S5-PLC (CPU-assemblies 15pin)

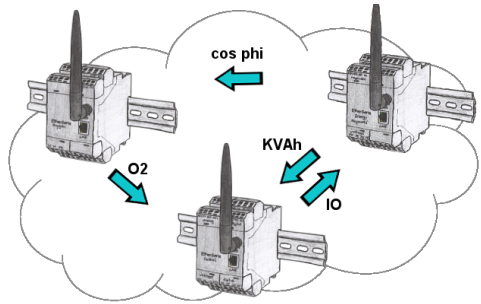


S5-PLC-communication, high-quality PC and fear of interfaces, unsure whether the PLC is grounded or the PLC is in an unsafe environment. Galvanic-separation is the most practical solution. "PG-ISO-Set" (PG-UNI-cable + PG-ISO-adapter) galvanically separates the coupling to the connected S5-PLC, offers protection of the PCs up to a voltage difference of 1000V.

If galvanic-isolation is not required, remove the PG-ISO-adapter and use the PG-UNI-cable like a standard S5-interface-cable.

No external supply necessary, function on 15-pin PG-interfaces. Earth objects between the PC and the S5-PLC are separated.

EtherSens-cloud



By the EtherSens-cloud each EtherSens-device can exchange data, transfer data and forward to other devices. As if you use one device that records all necessary parameters centrally.

Universally on machine and PLC

Remote access to all your systems, PLCs without great effort. Even triggering of actions by setting the integrated digital-outputs or reading in the digital and analog-inputs is possible via the Internet connection.

Regardless of whether you use your PC with the CONNECT-software or have connected a device from the CONNECT-family. Couplings via LTE also enable access to the LAN-interface on the system side. No special SIM-card is required for this.

A solution with little effort and everything within your "private" cloud.

Remote-maintenance Beckhoff-PLC

Remote-maintenance of a Beckhoff-controller with network-connection via secure VPN-tunnel of the TeleRouter