Handling-Shortinstruction V1.0 for

CONNECT-HS-Router + CONNECT-Router
industrial WiFi-router

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

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Power-ON

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

Power connection 24V DC

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WiFI

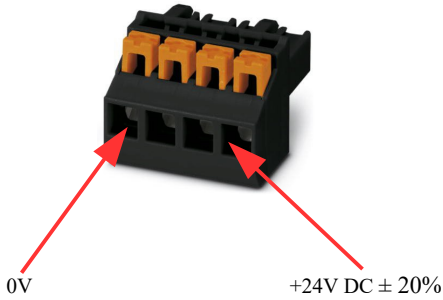
LAN-B: another subnet or client

optional: remote maintenance S1
optional: LTE status display

Power connection :

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

Assignment of voltage plug :



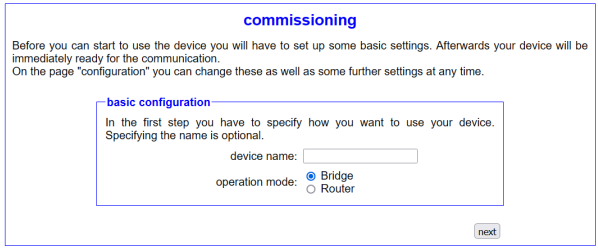
Initial start-up:

- CONNECT-Router 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:



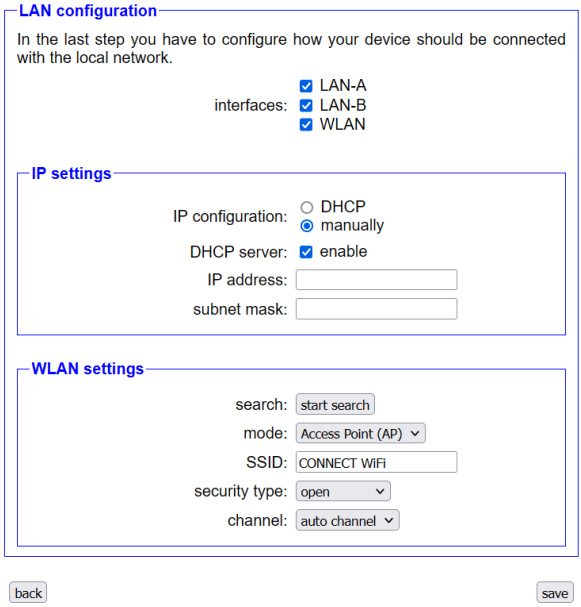
Basic configuration:

Assign a name to the device for identification

2 operating modes are possible with the CONNECT-Router :

- Bridge — Multiple interfaces connected to a common network
- Router — Separation between LAN and WAN (Internet) network

For operation mode Bridge:



LAN configuration:
Determine the interfaces that should be bridged

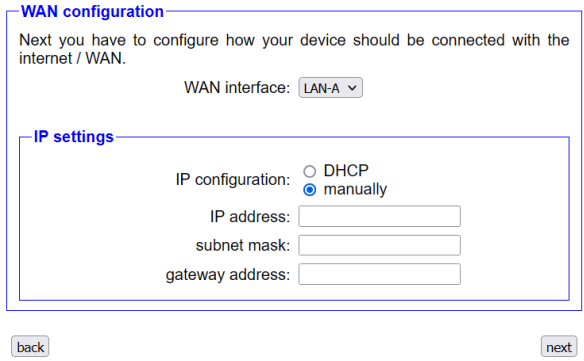
IP settings:

- IP configuration:	DHCP (parameters come from a DHCP master on the network) Manual (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	
- Modus:	Access-Point (AP) [the CONNECT-Router opens its own WiFi] Client [the CONNECT-Router connects to an existing WiFi network]	
- SSID:	Name of the connected or created network	
- Sicherheitsstufe:	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)
- Kanal:	Selection of the connection channel	

for operation mode Router:



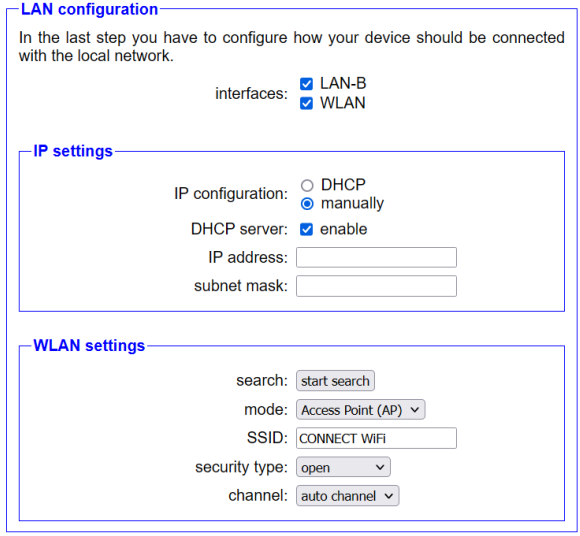
WAN interface: Set the WAN interface from LAN-A, LAN-B oder WLAN

IP settings:

- IP configuration: DHCP (Parameters come from a DHCP master on the network)
  Manuell (fields IP Address + Subnet Mask + Gateway Address 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

LAN configuration:

Determine the interfaces that should be connected to the local network



IP settings:

- IP configuration: DHCP (Parameters come from a DHCP master on the network)
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  - WPA/WPA2 8-64 ASCII characters (Independent automatic selection whether WPA or WPA2)
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By “Save” the selected configuration is adopted. The device is ready for use in the specified operating mode after a short waiting period (maximum 10s).

You need the following operating modes for the following situations :

Situation	Operating mode	WLAN mode	Particularities
With a laptop around the S5/7 PLC + CONNECT-Router	Bridge	Access-Point	PLC via S5/7 LAN on LAN-A port, additional LAN participants on LAN-B port
Bring S5/7-PLC or LAN-participants into the existing WiFi network	Bridge	Client	PLC via S5/7-LAN / LAN-participant on LAN-A port, additional LAN-participant on LAN-B port
Create a separate subnet for connected devices	Router	Access-Point	LAN-A port to the company network, LAN-B port + WLAN to the machine network (Don't forget routes in the company network)
Extend LAN route Attention: 2 devices are required	Bridge	1. device Access-Point 2. device Client	One device as AP and the second as client

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-Router 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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Menutree Website:

+ Products / docu / downloads
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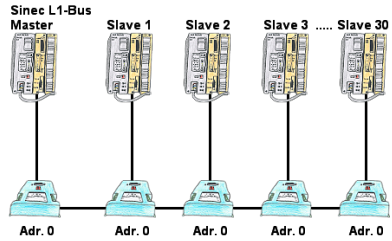
    + Router 3G / WLAN/WIFI
      + CONNECT-Router-devices
        + CONNECT-Router

QR-Code Website:

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

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.

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.

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.

Wireless around the Bosch-PLC

Move wirelessly around the Bosch-PLC and communicate for example ONLINE in the status