# Handling-Shortinstruction V1.0 for

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

**Connectors:** 



## **Power connection :**

Voltage:	$24~V~DC\pm20\%$
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:

	commissioning		
Before you can immediately rea On the page "co	start to use the device you will have to s dy for the communication. infiguration" you can change these as well	et up some basic settings. Afterward as some further settings at any time.	s your device will be
	basic configuration		
	In the first step you have to specify Specifying the name is optional.	how you want to use your devic	е.
	device name:		
	operation mode:	<ul> <li>Bridge</li> <li>Router</li> </ul>	
		n	ext

#### **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		
In the last step you have to configure how your device should be connected with the local network.		
interfaces:	☑ LAN-A ☑ LAN-B ☑ WLAN	
─IP settings		
IP configuration:	<ul><li>DHCP</li><li>manually</li></ul>	
DHCP server:	☑ enable	
IP address:		
subnet mask:		
-WLAN settings		
search:	start search	
mode:	Access Point (AP) V	
SSID:	CONNECT WIFI	
security type:	open V	
channel:	auto channel V	
back	save	

LAN configuration: Determine the interfaces that should be bridged

## **IP** settings:

<ul> <li>IP configuration:</li> </ul>	DHCP (parameters come from a DHCP master on the network)		
	Manual (IP addre	ss + subnet mask fields must contain valid values)	
- DHCP server:	Device is a DHC	P server on the selected interfaces	
- IP address:	IP address of the	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 CON	NECT-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 configuration	
	Next you have to configure how your internet / WAN.	device should be connected with the
	WAN interface:	LAN-A 💌
	-IP settings	
	IP configuration:	O DHCP is manually
	IP address:	
	subnet mask:	
	dateway address:	
	back	next
WAN interface:	Set the WAN interface	from LAN-A, LAN-B oder WLAN
IP settings:		
- IP configuration:	DHCP (Parameters cor	ne from a DHCP master on the network)
	Manuell (fields IP Add valid values)	dress + Subnet Mask + Gateway Address must contain
- IP address:	IP address of the device	e
- subnet mask:	Subnet mask of the dev	vice
<ul> <li>gateway address:</li> </ul>	Gateway address of the	e device

## LAN configuration:

Determine the interfaces that should be connected to the local network

LAN configuration		
In the last step you have to configure how your device should be connected with the local network.		
interfaces:	☑ LAN-B ☑ WLAN	
─IP settings		
IP configuration:	<ul> <li>DHCP</li> <li>manually</li> </ul>	
DHCP server:	enable	
IP address:		
subnet mask:		
-WLAN settings		
search:	start search	
mode:	Access Point (AP) v	
SSID:	CONNECT WIFI	
security type:	open v	
channel:	auto channel 🗸	
·		

back

save

#### **IP settings:**

DHCP (Parameters come from a DHCP master on the network)		
Manuell (fields IP address + subnet mask must contain valid values)		
Device is a DHCP server on the selected interfaces		
IP address of the device		
Subnet mask of the device		

## WLAN settings:

Searches for accessible WiFI networks and lists them; by clicking on an entry,		
d for connection		
Access-Point (AP) [the CONNECT-Router opens its own WiFi]		
Client [the CONNECT-Router connects to an existing WiFi network]		
Name of the connected or created network		
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)	
Selection of the connection channel		
	Searches for accessib d for connection Access-Point (AP) [tl Client [the CONNEC Name of the connecte Open WEP WPA WPA2 WPA2 WPA/WPA2 Selection of the connected	

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).

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

You need the following operating modes for the following situations :

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:

# **QR-Code Website:**

- + Products / docu / downloads
  - + Hardware
    - + Router 3G / WLAN/WIFI
      - + CONNECT-Router-devices
        - $+ \ CONNECT\text{-}Router$







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

## Actual data of S5/S7-PLC in Excel-file



Logging of workflows, recording of operating states, archiving of process data, all of these requirements can be handled with "PLC data in Excel".

You create a template-file in Excel, enter special keywords as placeholders for PLC-data such as flags, timers, counters, I/O and the connection-parameters and save the file as a template for the tool. The tool runs on a Windows compatible PC and polls the defined controller. As soon as the trigger event occurs, the configured PLC-data is read out and entered in the template file instead of the placeholder and saved under a specified file-name in the specified directory.

It is also possible to communicate with controllers without a network-interface via S7-LAN (with S7-200/300/400) or S5-LAN++ (with S5-90U to 155U).

A corresponding Excel-file for each trigger event.



Running global-data-communication between MPI-PLCs (S7-300/400), is one of these PLCs replaced with a newer PLC with network-interface (S7-1200/1500), this PLC was not able to access this data.

Simply configure the global-data of the "old" PLC via the web-server in the S7-LAN-module. Enter the new PLC as a TCPIP-connection-partner and the module writes/reads the data via PUT/GET from this network-PLC and passes it on as before.



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.

# Data backup S5-PLC on SD-card



S5-PLC triggered DB-backup/-restore without additional PC via PG-socket and Ethernet on SD-card