



KNXnet/IP Interface 90125

Use of the application program

Product family: Communication
 Product type: Gateways
 Manufacturer: B.E.G. Brück Electronic GmbH

Name: KNXnet/IP Interface
 Order number: 90125

Functions

The KNXnet/IP Interface offers an easy and comfortable opportunity to parameter the KNX/EIB installation with ETS 3 (EIBnet/IP tunnel protocol).

In addition, an object server connection is supported for communication with the ComBridge Studio visualisation software. This connection can be made and sustained parallel to an ETS tunnel connection. In this way the visualisation will not be disconnected during ETS programming.

Different applications are possible:

- Parameterisation of an EIB/KNX installation via Ethernet with ETS 3
- Connection to KNXnet/IP Interface visualisation systems.

Brief description of the function modules

EIBnet/IP tunnel connection:

Client software products, such as ETS 3, which are based on the EIBnet/IP tunnel protocol, can connect to the KNXnet/IP Interface Web. Like this, an EIB/KNX installation can be parameterised and configured easily via an IP network.

Parameterisation of the device

The parameterisation of the device is performed via ETS.

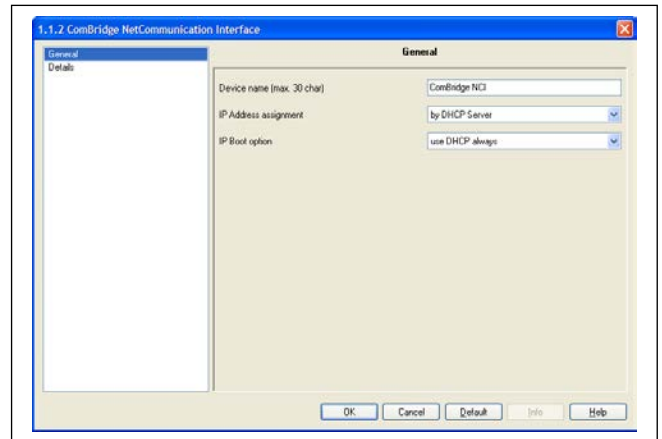
Overview of the ETS parameterisation

Fundamental specifications about the device are made in the ETS parameterisation.

This includes amongst others the identification via an IP address.

By default, the IP address is obtained from a DHCP server. If this option is de-activated, the device is initialised with a parametered IP address and subnet mask.

In addition, a standard gateway or router can be defined, which offers the possibility to reach clients on the internet or another network.



When selecting DHCP, it is also possible to change to a fixed IP address if no DHCP server is available.

A fixed IP address is recommended if a server is used as the visualisation server, so that it can always be contacted.

Parameter

The following parameter area available in the application:

General parameter page

Parameter	Settings
<i>General Parameter</i>	
Device name	KNXnet/IP Interface
The name of the device is set via this parameter so that it can be identified later on in the visualisation.	
IP address allocation	Fixed IP address DHCP
The KNXnet/IP Interface can be allocated to either a fixed IP address or to a dynamic address which is assigned by a DHCP-Server.	
IP-Boot Option	Always use DHCP Use fixed IP if DHCP is not available
This parameter only becomes visible if DHCP has been selected in the address allocation. In this operating mode you can also choose whether DHCP is always to be used or if, after a certain time, you would like to revert to a fixed IP address if DHCP is not available. This time is described in the opposite column under <i>Detail</i> .	
IP-Address / 1. Byte	0



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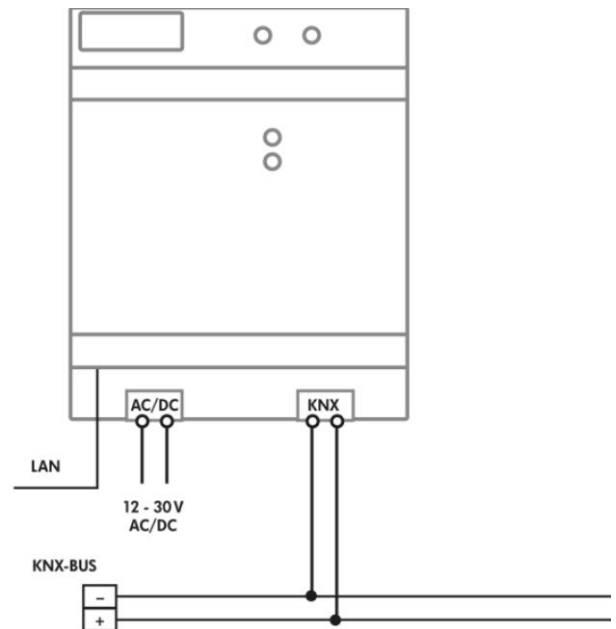
IP-Address / 2. Byte	0
IP-Address / 3. Byte	0
IP-Address / 4. Byte	0
Here the standard IP address of the KNXnet/IP Interface is pre-set. If a DHCP mode is set, this address is permanently overwritten by the addresses assigned by the DHCP-Server. The IP address 0.0.0.0 is invalid and only makes sense when the DHCP-Server is activated.	
Subnet Mask / 1. Byte	0
Subnet Mask / 2. Byte	0
Subnet Mask / 3. Byte	0
Subnet Mask / 4. Byte	0
Here the standard IP subnet mask of the KNXnet/IP Interface is pre-set. If a DHCP mode is set, this mask is permanently overwritten by the address assigned by the DHCP-Server. If the device is configured without DHCP server (setting <i>fixed IP address</i>), the device needs to have the right subnet mask in order to work correctly.	
IP address Default Router / 1. Byte	0
IP address Default Router / 2. Byte	0
IP address Default Router / 3. Byte	0
IP address Default Router / 4. Byte	0
The role of the standard router is to send UDP telegrams which are addressed to a PC outside of the local network. If a DHCP mode is set, this address is always permanently overwritten by the DHCP server. If the DHCP server itself does not transmit any router address, it is assumed that no router is to be used. If the device is to be parametered without a standard router, use the pre-set (invalid) address (0.0.0.0).	

This parameter defines the time-out during an IP communication. If the client does not respond to a request after this time, the connection is terminated.

DHCP time-out	5 s
	30 s
	1 min
	2 min

Here the time is set after which the setup reverts to the fixed IP address if no DHCP server is available.

Connection drawing of the device



Parameter for special functions (Detail)	
Parameter	Settings
Communication time-out	1 s
	5 s
	10 s
	20 s
	30 s
	60 s