Operating and installation manual

Application

The KNX IP Interface wireless is a WLAN interface to the KNX/EIB bus. It can be used instead of a USB or wire-bound IP interface, e.g. for ETS3. Utilising the wireless technology the installer can now move unhindered throughout the building.
The KNX IP Interface wireless contains an integrated Access Point which provides the direct connection to the device via a WLAN network. It has an external 9 V power supply.
This device functions according to the KNXnet/IP specification. It is compatible with ETS from version 3.0c.

Client

WLAN

EIB/KNX

ETS Database

The following parameters can be configured with ETS:

General:
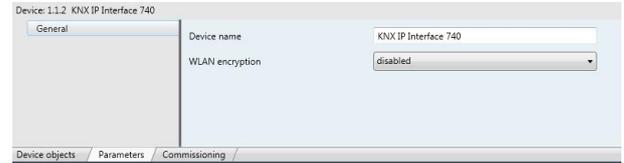
Device Name:
The KNX IP Interface wireless can be assigned a name of your choice. The device name should be descriptive. It is used to search for and recognize a device. For example, the device name appears in the dialog of the ETS Connection Manager. Additionally the device name is used for WLAN network identification (SSID, Service Set Identifier).

WLAN-Encryption:
By default, the WLAN-Encryption is disabled. That is, the installer can initially connect to the WLAN network without entering a password. The configuration attribute "enabled" activates the WLAN connection encryption.

WLAN encryption:
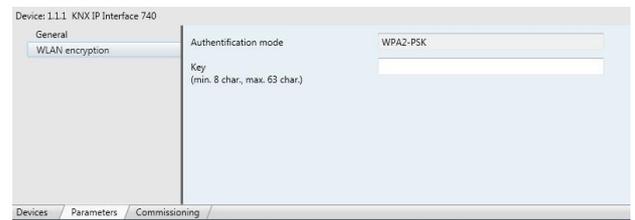
Encryption standard:
WPA2-PSK (Wi-Fi Protected Access 2, pre-shared-key) is supported.

Encryption Key:
This is where you enter the encryption key (in ASCII characters, max. 63 Zeichen). It is also possible to enter the key during the initial connection setup phase from a PC.

Example:
Herbert15985
VGVwdv36fhe468415v1weerh3zf73b8JKB45SUsqmf

To ensure a high degree of security it is advised to use a longer key.

WLAN Connection Initiation

To create a WLAN connection from a PC or Laptop a WLAN adaptor is required. Most new computers have an integrated WLAN adaptor. To create a WLAN connection to the KNX IP Interface wireless the device must first be found by the wireless connection manager. The dialog window „Wireless Network Connection" from Windows® lists all available wireless networks. This can be found under „Control Panel/Network Connections/Wireless Network Connection". It is also possible to open it from the corresponding "Wireless networks" icon on the taskbar.
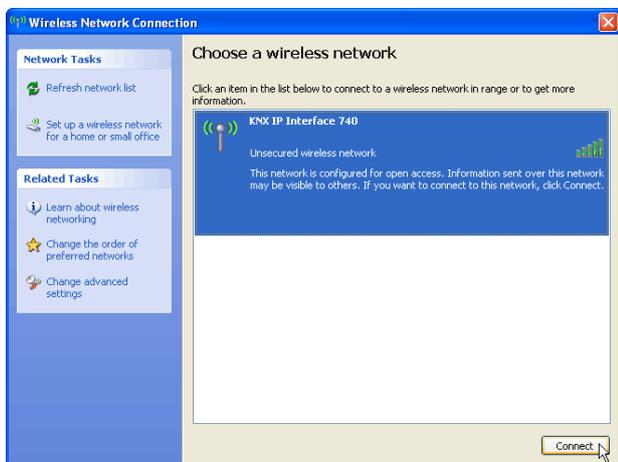
The KNX IP Interface wireless contains an integrated DHCP-Server which will automatically assign the PC an IP address. For most laptops this is the standard setting.
To view/modify the wireless network connection configuration select „Internet Protocol (TCP/IP)" and press the „Properties" button.
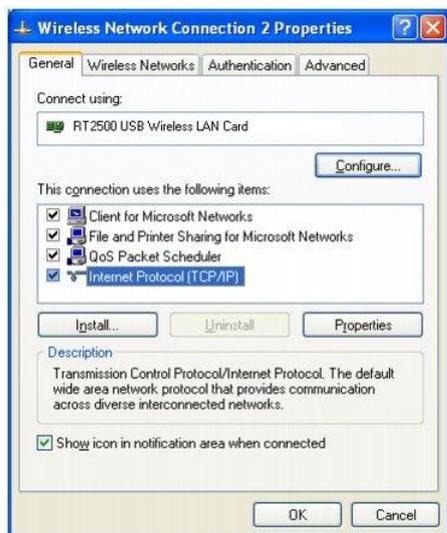
In the following window „Obtain an IP address automatically" should be selected.
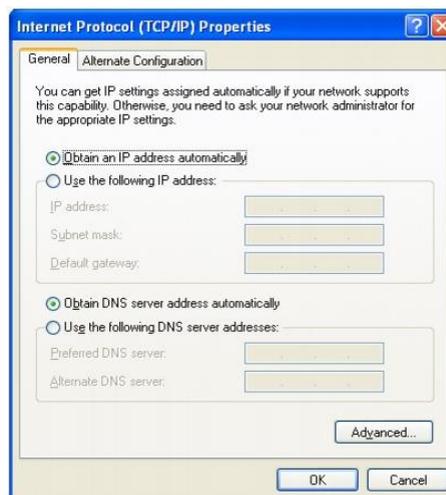
ETS Connection Manager

Following the successful creation of a wireless connection the KNX IP Interface wireless can now be used as an interface to the KNX/EIB bus.
The following configuration is necessary:
Select the button "Settings" and the tab "Communication" in the main window of ETS4. All available connections are listed by "Configured connections". Select the desired connection.

To connect to the KNX/EIB bus the KNX IP Interface wireless requires a second physical address. The button Local settings enables the configuration of the individual address, which is used for bus access.
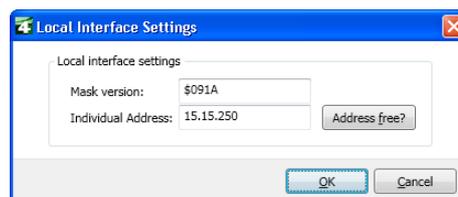
A dummy device may be created in the ETS-project to reserve this address.

Installation and connection

The housing of the KNX IP Interface wireless has the following dimensions: 125 x 67 x 31 mm.
It has the following connectors, display elements and buttons:
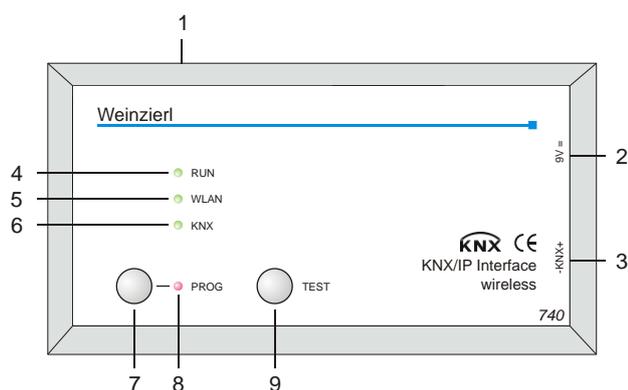
1: Antenna Terminal
2: External power supply connection (9 V DC)
3: Connector for KNX/EIB with a bus terminal
4: RUN LED (green):
- Blinks quickly during the startup phase (approx. 40 seconds)
- Lights up to indicate the device is operational
5: WLAN LED (green):
- Flashes to indicate telegram activity
6: KNX LED (green):
- Lights up to indicate the KNX/EIB is available
- Flashes to indicate telegram traffic
7: Programming Button
8: Programming Mode LED (red)

9 Test mode button:
While this button is pressed the device goes into test mode. In test mode the display elements have the following meaning:
- RUN LED: blinks slowly and indicates the device is in test mode
- WLAN LED: off
- KNX LED: on when an active connection is available, otherwise off

The connection to the mains (230 V~/50 Hz) is done via the enclosed wall power supply.

The KNX IP Interface wireless is delivered in a plastic case with the following content:
- Wall power supply (Primary: 230 V~/50 Hz, Secondary: 9 V=)
- Antenna (SMA-R connector)
- Pluggable screwing terminal for the connection of the KNX/EIB bus
- Documentation

KNX   CE

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