Zennio KNX USB Interface

USB Interface

ZN1SY-USBP

www.zennio.com

Contents

DOCUMENT UPDATES

Version	Modifications	Page(s)
[1.0]_b	Device driver installation instructions added to Section 2.	6

1 INTRODUCTION

Zennio KNX USB Interface is the solution from Zennio for the interconnection between a PC and the KNX bus. This interface permits interacting with the various devices connected to the bus, and performing tasks such as:

- Address, parameter and application program **downloads** to KNX devices.

- Bus **diagnostics**.
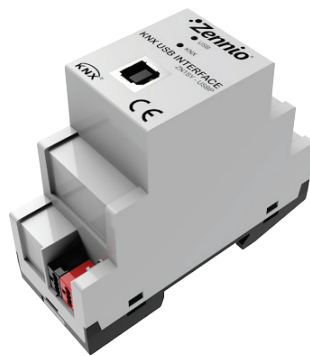
- **Connection** and **data transfer** monitoring.

Figure 1 Zennio KNX USB Interface

Among the features of the device, the most outstanding are:

- Low **consumption**.

- **Easy** installation and use.

- **USB 2.0** compatibility.

- Status **LEDs**.

- Support for **long messages** (up to 228 bytes).

- Electrically **isolated** bus connection.

- **Compatibility** with applications & platforms unsupported by the KNX Falcon driver (e.g.: Linux).

1.1 INSTALLATION

As shown in Figure 2, Zennio KNX USB Interface features two external connectors, one for connecting the KNX bus (5) and another one for connecting to the PC (3). The latter requires a standard USB cable with one B type end.
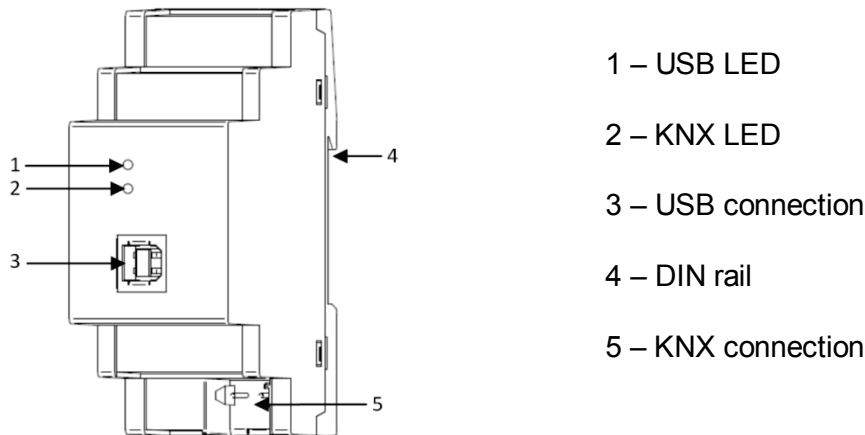

1 – USB LED

2 – KNX LED

3 – USB connection

4 – DIN rail

5 – KNX connection

Figure 2 Zennio KNX USB Interface. Element scheme

A short description of the main elements is provided next:

- **USB LED (1):** this orange LED will turn on once the connection has been established between the USB interface and the PC. This connection is required before performing any actions with the programmer.

  Note: *being this LED on does not necessarily guarantee a correct communication between the interface and the PC. To ensure a proper communication, performing a connection test in ETS is advised.*

- **LED KNX (2):** this orange LED will turn on once the connection has been established between the interface and a properly powered KNX bus.

  Note: *in case the interface is not properly connected to a PC through the USB port, this LED will remain off even if the bus connection has been established.*

Data transfers will make the LEDs **blink**. Therefore, for example, the USB LED will blink during the assignment of an individual address to Zennio KNX USB Interface, while it will be both LEDs that blink during an ETS download to another device connected to the bus.

For detailed information about the technical features of Zennio KNX USB Interface, as well as on security and installation procedures, please refer to the device **Datasheet**, included within the device packaging and also available at http://www.zennio.com.

2 CONFIGURATION

On the **first connection** of the device to the USB port of the PC, it will be necessary to install the corresponding device driver to the operating system, in order to make ETS detect it. Two alternate procedures are possible:

- Running the standalone driver installer file,

- Importing the device database to ETS, as the driver is provided embedded into the database, therefore making the installation transparent to the user.

Both can be downloaded from the Zennio website: http://www.zennio.com, section Products > System > Zennio KNX USB Interface.

Once the driver is installed, it will be possible to use and configure the device in ETS or any other KNX diagnose tool.

3 ETS PARAMETERIZATION

This device **does not require** the download of an application program to start working.

Nevertheless, in order to make it possible to include the device within an ETS project, the corresponding database (Zennio KNX USB Interface) is provided, however, it does not contain parameters, application programs or communication objects.

In addition, ETS may be used to set a basic configuration. The configuration options are shown in the Communication tab, which can be found under Extras > Options (ETS3) or under Settings (ETS4).

The most significant options available under this tab are:

- **Device individual address**: by default, it will be 15.15.255.

- **Selection and test of the desired interface**, useful in case of having several USB interfaces connected to the same PC.

For detailed information about the USB interface configuration process from ETS, please refer to the ETS user manual and to the Help menu on the program itself.