

EIB-KNX Module

User Manual



Version 1.0

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2. Preface

2.1. Overview

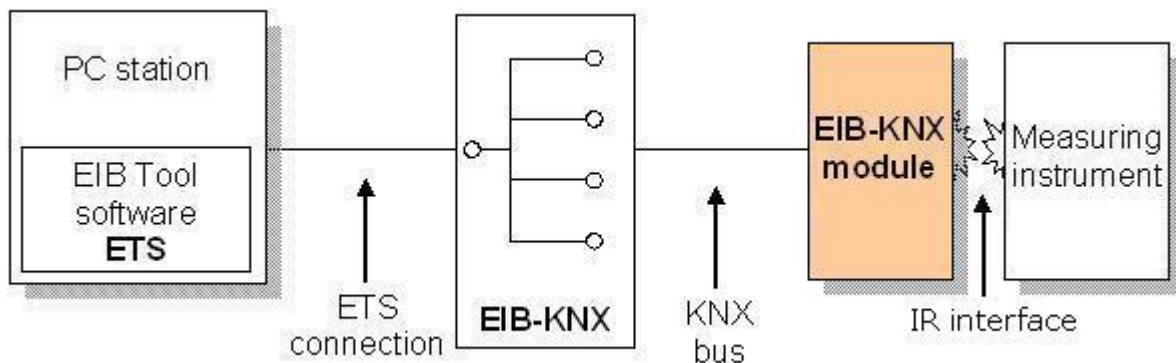
The EIB-KNX Module is a DIN rail mount KNX/EIB interface to be used in combination with the electricity meters. It is intended to connect meters to the KNX/EIB bus, widely used for home and building control applications. Only the bus wiring is requested (black and red connection block), because the interface gets the power supply from the bus, and receives the measurement data from the meter by means of the infrared port available on the side. The interface must be installed side by side with the meter. It is suitable for both single-phase and three-phase meters.

After installation the interface requires a proper commissioning: two application programs are available, single phase and three phase. With ETS (EIB Tool Software) the proper application must be selected, and downloaded to the interface, together with its specific parameters and addresses.

2.2. System description

This document describes the usage of the **EIB-KNX communication interface**.

Below you have an example of connection for the module. A minimal system configuration require at least one counter beside the module and a PC master station to control the communication and the configuration.



2.3. Application programs

There are two application programs downloadable into EIB-KNX Module:

- Single phase models profile
- Three phase models profile

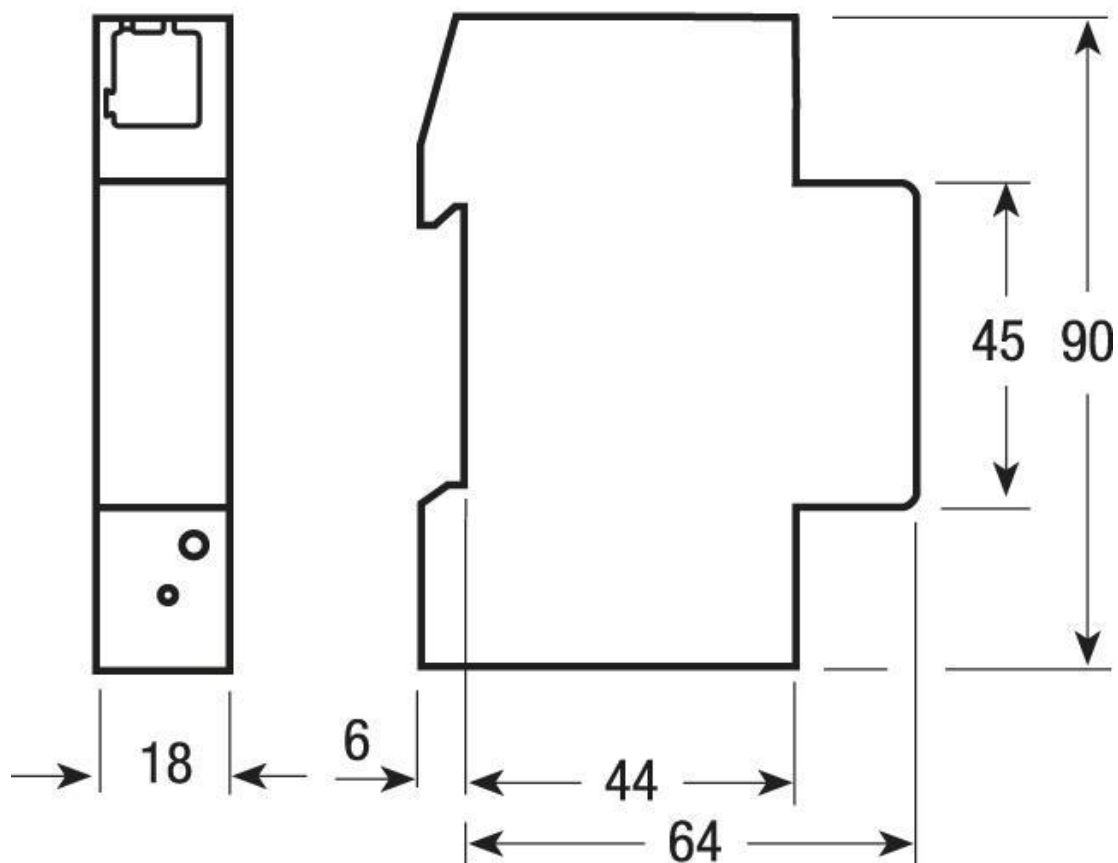
You use the ETS (*EIB* tool software) to select the application program, to allocate specific parameters and to transfer these into the Interface.

2.4. Documentation

Quick start guide
EIB-KNX Module – User manual
EIB-KNX Applications – Manual

Basic notes for a quick installation
This guide
Manual dedicated to single/three phase meter application program

3. Mechanical reference



4. Frontal panel - Location and function of the elements

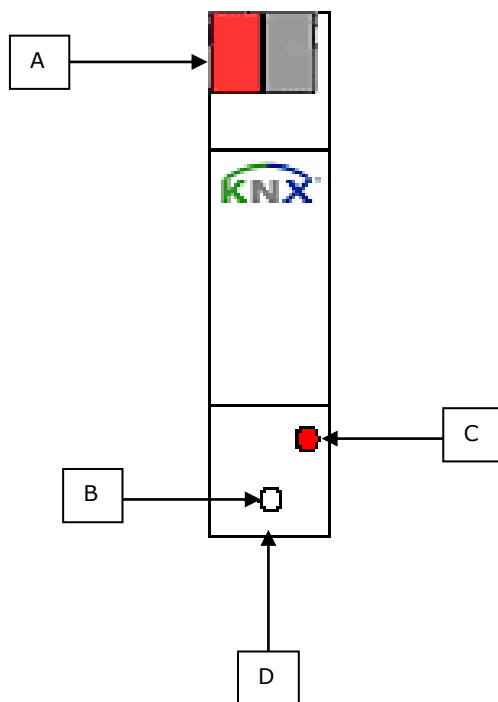
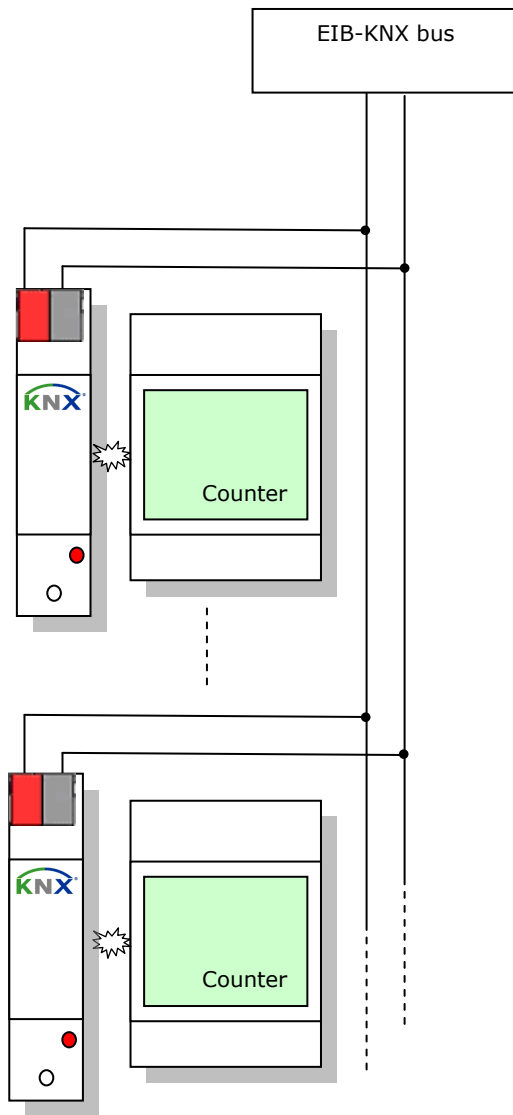


Figure1: Location of the operating elements

- A. Bus connection block. Red = +, Black = -.
- B. Learning button for switching between normal operating mode and addressing mode.
- C. Led for operating mode. Off = normal operating mode, On = addressing mode.
- D. Slide for installing/removing the interface on DIN rail.

5. Mounting and Wiring

The power supply is got by the bus lines.



5.1. General description

The device can be installed on any DIN rail complying with EN 60715-TH35-7,5.

The connection to the bus line is established via the bus connector terminal (red-black) on the top side.

5.2. Mounting DIN-rail devices (Figure 2)

Slide the device (Figure 2, B1) onto the DIN-rail (Figure 2, B2) and swivel back the device until the slide clicks into place audibly.

Connect the bus line with the black-red bus connector terminal (Figure 1, A).

5.3. Dismounting DIN-rail devices (Figure 2)

Remove the black-red bus connector terminal (Figure 1, A) from its socket.

Press down the slide (Figure 2, C3) with a screw-driver and swivel the device (Figure 2, C1) from the DIN-rail (Figure 2, C2).

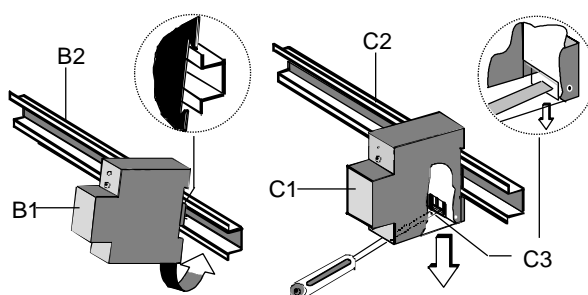


Figure 2: Mounting and dismounting a DIN-rail device

5.4. Slipping off bus connection blocks (Figure 3)

- The bus connection block (Figure 3, D2) is situated on the top of the device (Figure 3, D1).
- The bus connection block (Figure 3, D2) consists of two components (Figure 3, D2.1 and D2.2) with four terminal contacts each. Take care not to damage the two test sockets (Figure 3, D2.3) by accidentally connecting them to the bus cable or with the screw-driver (e.g. when attempting to unplug the bus connection block).
- Carefully put the screw-driver to the wire-inserting slit of the bus connection block's grey component and pull the bus connection block (Figure 3, D2) from the device (Figure 3, D1).

5.5. Slipping on bus connection blocks (Figure 3)

- Slip the bus connection block onto the guide slot and press the bus connection block (Figure 3, D2) down to the stop.

5.6. Connecting bus cables (Figure 3)

- The bus connection block (Figure 3, D2) can be used with single core conductors $\varnothing 0,6 \dots 0,8$ mm.
- Remove approx. 5 mm of insulation from the conductor (Figure 3, D2.4) and plug it into the bus connection block (Figure 3, D2) (red = +, black = -).

5.7. Disconnecting bus cables (Figure 3)

- Unplug the bus connection block (Figure 3, D2) and remove the bus cable conductor (Figure 3, D2.4) while simultaneously wiggling it.

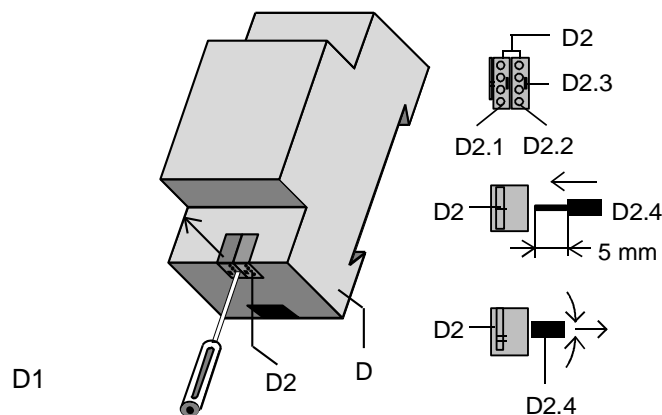


Figure 3: Connecting and disconnecting the bus wires

Data in compliance with EN 60664-1, EN 50090-2-2, EN 61000-6-2, EN 61000-6-3 and EN 61000-4-2

