



# KNX Modbus Gateway

Gateway between Modbus RTU and EIB/KNX to integrate Modbus RTU compatible devices



## Highlights

- Direct link to EIB/KNX (two-wire)
- Link to Modbus RTU (RS-485 or RS-232)
- Read & write values from electric meters, electricity supply systems, etc.
- Support for all major Modbus Function codes: Read Coils, Read Discrete Inputs, Read Holding Registers, Read Input Registers, Write Single Coil Write Singl Register, Write Multiple Coils, Write Multiple Registers
- Cyclic polling of the slaves
- Each KNX Modbus Gateway can transfer up to 300 measured values
- Up to 30 Modbus devices (at RS-485) can be connected to each KNX Modbus Gateway
- KNX status message in case of a Modbus Slave failure
- Simple parametrization via USB and b+b Terminal software
- DIN rail housing (6TE = 105mm) with integrated 100V – 240V wide range power supply

## Description

The KNX Modbus Gateway is used for communication between the EIB/KNX bus and Modbus compatible meters, power analyzers, etc. The gateway assumes the role of the Modbus Master, i.e. it controls communication. The gateway provides a bidirectional connection. Data from the Slaves can be read either in cycles at certain intervals or on request by the EIB/KNX bus system. The most important function codes for read and write access are supported. For example, consumption values can be used as an integer or transferred as a floating point value to the EIB/KNX bus. Different data formats can be set for each measured value. Furthermore, it is possible to scale the process values (multiplication/division). Parametrization and diagnosis is performed through the integrated USB interfaces in connection with our b+b Terminal software. The gateway hardware consists of a 6TE (=105 mm) wide rail mounting housing with integrated 100V - 240V power supply and connections for Modbus & EIB/KNX. The device is maintenance-free without fan or any other wear parts.

## Fields of application

- Integration of Modbus slaves for the professional performance-, power- and energy-analysis
- Easy integration of Modbus RTU slave in EIB/KNX -systems
- Read current process values of Modbus slaves
- Visualization of energy consumption in the EIB/KNX installation

## Interfaces present

- EIB/KNX 2-wire connection through standard EIB/KNX bus terminal
- USB connection through Mini USB socket
- Modbus connection through screw terminals (RS-485) and Sub-D (RS-232)
- Modbus data rate of 1,2kBit/s to 38,4kBit/s

## Contents of delivery

- KNX Modbus Gateway
- USB cable for parametrization/diagnosis
- b+b Terminal Software
- Documentation

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