



# KNX M-Bus Gateway

Gateway between M-Bus and KNX for energy recording by M-Bus energy meters



## Highlights

- Direct link to KNX (two-wire)
- Link to wired M-Bus
- Reading of current consumption values, meter readings, flow and return temperatures
- Each KNX M-Bus Gateway can transfer up to 200 measured values
- Up to 25 M-Bus devices can be connected to each KNX M-Bus Gateway
- Cyclic requests are possible, parameterisation per device is possible
- Integrated M-Bus diagnosis functions
- Simple parameterisation via USB and bb-terminal
- Supports primary and secondary M-Bus addresses
- Rail mounted device (6TE = 105mm) with integrated 85V – 260V wide range power supply
- Interfaces present:
  - EIB/KNX 2-wire connection through standard EIB/KNX bus terminal
  - USB connection through Mini USB socket
  - M-Bus connection through spring clips:
    - M-Bus data rate 2400 Baud
    - max. 25 M-Bus meter

## Introduction

The KNX M-Bus Gateway serves for communication between the EIB/KNX bus system and M-Bus-capable meters. The gateway assumes the role of M-Bus Master, i.e. it controls communication. M-Bus energy meter data can be read either in cycles at certain intervals or on request by the EIB/KNX bus system. Different data formats can be set for each measured value, so that the consumption value can be sent to the EIB/KNX Bus as a whole number, a temperature value as a KNX flow point value, etc..

The KNX M-Bus Gateway also offers several diagnosis functions for M-Bus meters, such as automated search and identification of the M-Bus slaves connected. The answering data sent by the meter is presented in detail in clear text, so that the time-consuming procurement of M-Bus telegram description is dispensed with. The diagnosis functions can be used through simple ASCII commands.

Parameterisation and diagnosis is performed through the integrated USB interfaces in connection with our b+b Terminal Software.

The gateway hardware consists of a 6TE (= 105mm) wide rail mounting housing with integrated 85V – 260V power unit and connections for M-Bus and EIB/KNX at the same time. The device is maintenance-free without fan or any other wear parts.

## Fields of application

- Simple integration of M-Bus meters in EIB/KNX systems
- Reading of current consumption values, meter readings and flow and return temperatures
- Diagnosis functions for M-Bus meters

## Contents of delivery

- KNX M-Bus Gateway
- USB cable for parameterisation/diagnosis
- b+b Terminal Software for parameterisation
- Documentation

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