



# KNX M-Bus Gateway

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



## Highlights

- Direct link to EIB/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, parametrization per device is possible
- Integrated M-Bus diagnosis functions
- Simple parametrization via USB and b+b-Terminal
- Supports primary and secondary M-Bus addresses
- Rail mounted device (6TE = 105mm) with integrated 100V – 240V 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 screw terminals
    - M-Bus data rate 2400 Baud
    - (max. 25 M-Bus unit loads / 1 unit load = 1,5 mA)

## Introduction

The KNX M-Bus Gateway serves for communication between the EIB/KNX bus system and M-Bus capable meters. The gateway takes up the role of a M-Bus Master, i.e. it controls the 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 an integer, a temperature value as a floating 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 connected M-Bus slaves.

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. 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 (= 105mm) wide rail mounting housing with integrated 100V – 240V 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, energy values and flow and return temperatures
- Diagnosis functions for M-Bus meters

## Contents of delivery

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

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