iSMA-B-MG-IP

The **iSMA-B-MG-IP** device has been designed to simplify the connection of meters installation with BMS.

By applying the most popular interfaces for M-Bus and Modbus meters, the device allows simultaneous integration of **up to 180 meters of various types.**

The M-Bus interface allows communication and power supply of **up to 60 M-Bus meters**. The maximum current must not exceed 130 mA.
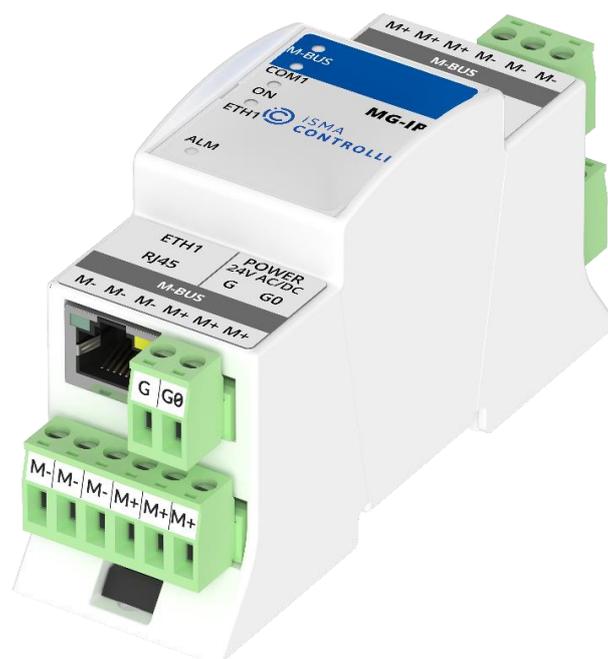
The RS485 interface allows the connection of **up to 128 Modbus devices.** The device address and Modbus baud rate are set using DIP switches.

The built-in TCP/IP interface provides the ability to use the existing LAN infrastructure and allows for distributed meter monitoring systems.

iSMA-B-MG-IP device configuration is possible with the built-in web server or dedicated iSMA Configurator.

Key Features

- M-Bus TCP/IP and UDP/IP to M-Bus gateway
- Modbus TCP/IP to Modbus RTU/ASCII gateway
- Up to 180 meters (devices) of various types
- Two independent gateways operating simultaneously in one device
- Built-in power supply for up to 60 M-Bus meters (devices)
- Direct connection for up to 6 M-bus branches
- Built-in Mini USB port for configuration and firmware updates

M-Bus

Modbus

iSMA-B-MG-IP

Specification

Connectors

- 12x screw connector max 2,5 mm2 (18 – 12 AWG). Direct connection for up to 6 M-Bus branches
- 1x RS485
- 1x RJ45

Supported Devices

- Up to 60 M-Bus meters
- Up to 128 Modbus Slave devices

Galvanic Isolation

- 3 kV AC/DC for all interfaces and power supply

Communication

- Interface M-Bus Master according to EN 13757-2
- Interface RS485 half-duplex
- 1x Fast Ethernet
- Protocols: M-Bus and Modbus
- M-Bus baud rate: 300 to 38400 bps
- Modbus baud rate: 2400 to 115200 bps

Platform

- ARM Cortex-M3

Power Supply

- 24 V AC/DC

Housing

- Dimension: 37x110x62 mm (1.457x4.331 x 2.441 in)
- Construction: plastic, self-extinguishing (PC/ABS)
- DIN rail mounting DIN (DIN EN 50022 norm)
- Cooling: internal air circulation

Environment

- Operating temperature: -10°C to 50°C (14°F to 122°F)
- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40–for indoor installation

M-Bus TCP/IP
M-Bus UDP/IP
Modbus TCP/IP

M-Bus - up to 60 meters

Modbus - up to 128 devices