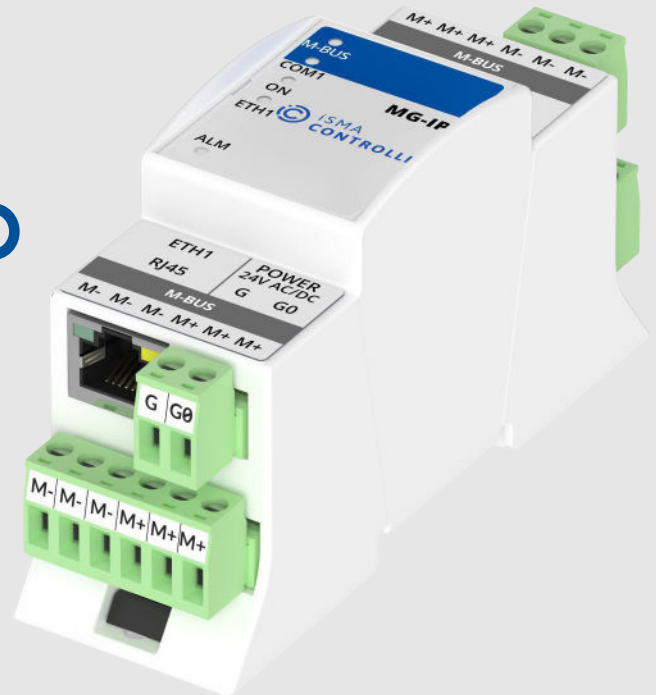


# ISMA-B-MG-IP

Meter Gateway with built-in M-Bus to M-Bus IP gateway with power supply for up to 60 devices and Modbus TCP/IP to Modbus RTU Gateway.



## The Power of Communication

Take advantage of the multiprotocol gateway device to bring your data to the IP network level. With just one compact device, up to 60 M-Bus meters can be integrated into the IP network along with 128 Modbus RTU/ASCII devices.

## M-Bus Interface

The M-Bus interface allows for communication and power supply for up to 60 M-Bus meters with a maximum current load of up to 130 mA. This way, up to 60 energy, flow, water, and other types of meters can be powered up and integrated with the M-Bus protocol to a master controller.

## M-Bus to M-Bus IP

Bring data from meters to various systems based on the versatility of communication with support for M-Bus TCP/IP and M-Bus UDP/IP protocols.

## Modbus TCP/IP to Modbus RTU/ASCII Gateway

Built-in Modbus gateway on the COM1 port enables integration of up to 128 Modbus slave devices to the IP layer.

## Two Independent Gateways Operating Simultaneously in One Device

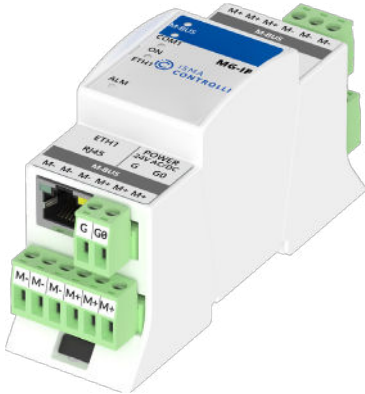
By applying the most popular interfaces for M-Bus and Modbus meters, the device allows for handling up to 180 meters of various types simultaneously.

## Simplified Configuration and Commissioning Process

MG-IP allows for seamless configuration with a built-in web server or dedicated free of charge tool. The ability to be powered from a USB port facilitates local testing and a straightforward updating process.



MODEL	DESCRIPTION
iSMA-B-MG-IP	Meter Gateway with a built-in M-Bus to M-Bus IP gateway with power supply for up to 60 devices and Modbus TCP/IP to Modbus RTU gateway



APPLICATION AND USE

The MG-IP multiprotocol meter gateway is designed to simplify the integration of water, electricity, gas, and other meters installed in the building to the BMS using an IP connection. The device allows a simultaneous integration of up to 180 meters of various types. The M-Bus interface allows for communication and power supply of up to 60 M-Bus meters. The maximum current must not exceed 130 mA. The RS485 interface allows for connecting 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 an existing LAN infrastructure and allows for distributed meter monitoring systems. The MG-IP device configuration is possible with the built-in web server or dedicated software, the iSMA Configurator.

FEATURES

- M-Bus TCP/IP to M-Bus gateway
  - M-Bus UPD/IP to M-Bus gateway
  - Modbus TCP/IP to Modbus RTU/ASCII gateway
  - Built-in configuration web server
  - Dedicated iSMA Configurator software
- Built-in power supply for up to 60 M-Bus meters (up to 130 mA)
  - Mini USB allows for powering the device and simplifies the configuration and updates

TECHNICAL SPECIFICATION

DESCRIPTION		MG-IP
Power supply	Voltage	24 V AC/DC $\pm$ 20%
M-Bus	Bus	Up to 60 devices
	Baud rate	From 300 to 38400
COM1	RS485 interface	Up to 128 devices
		Half-duplex
	Communication protocol	Modbus RTU/ASCII
	Ports	Screw connector
ETH1	Baud rate	2400-115200
	Communication protocol	Modbus TCP/IP
	Baud rate	10/100 Mb/s
USB1	Port	RJ45
	mini USB	2.0
Ingress protection	IP rating	IP 40 for indoor installation
Temperature	Storage	-40°C to +85°C (-40°F to +185°F)
	Operating	-10°C to +50°C (14°F to 122°F)
Humidity	Relative	5 to 95% RH (without condensation)

The performances stated in this sheet can be modified without any prior notice.

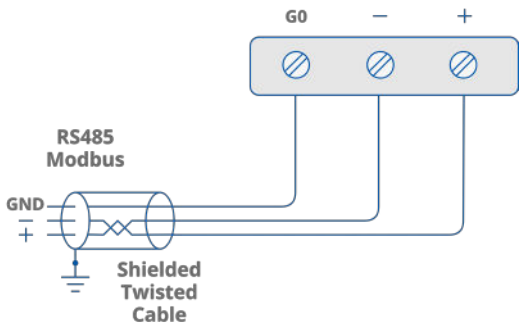
DESCRIPTION		MG-IP
Screw connectors	Type	Removable screw terminals
	Maximum cable size	2.5 mm <sup>2</sup> (18...12 AWG)
Housing	Material	Self-extinguishing plastic (PC/ABS)
	Mounting	DIN (DIN EN 50022 norm)
Dimensions	Width	36.30 mm/1.43 in
	Length	111.40 mm/4.38 in
	Height	62.00 mm/2.44 in

### WIRING DIAGRAMS

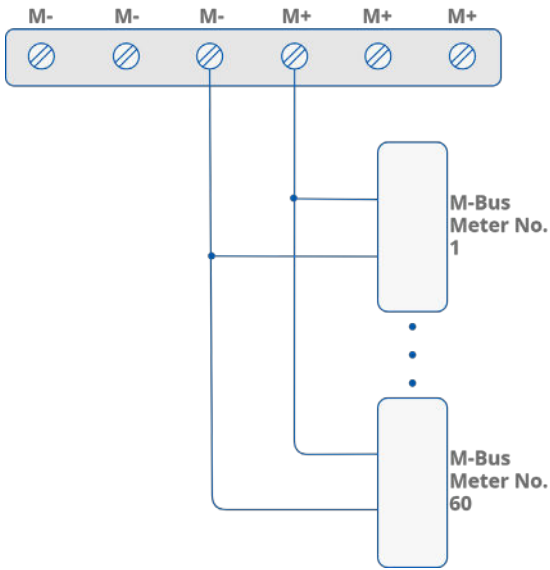
#### Power Supply



#### Communication



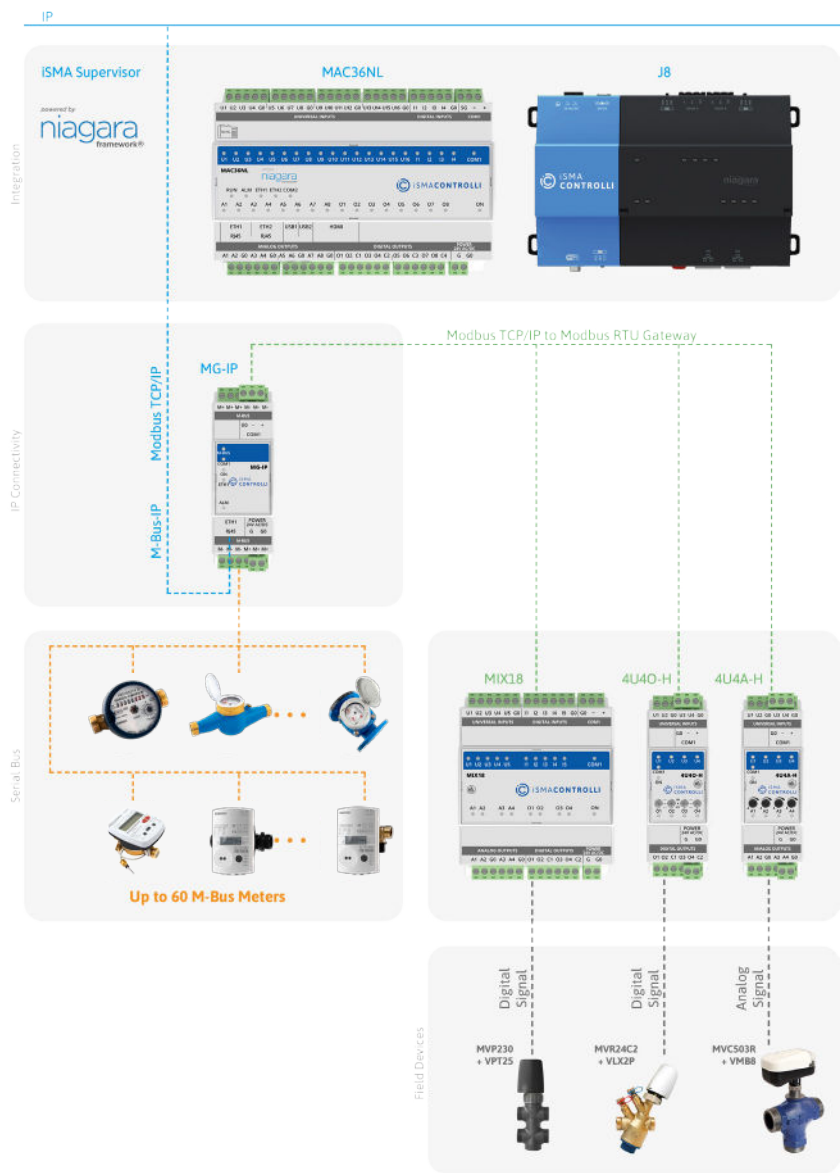
#### M-Bus Network



### DEDICATED SOFTWARE



iSMA Configurator - configuration tool for non-programmable iSMA CONTROLI devices



DIMENSIONS [mm]

