

PiiGAB M-Bus 900S



Universal Ethernet/M-Bus Gateway

Features:

- Up to four parallel clients.
- Software license for all updates.
- TCP, UDP, Serial (configurable).
- Fixed IP address or dynamic via DHCP.
- Operative system independent.
- System clock can be synchronized with a NTP server.
- Modbus TCP/RTU Slave.
- Acts as an M-Bus meter on the M-Bus net.
- Read the M-Bus voltage and current.
- One relay, control by M-Bus telegram.
- Two digital inputs, can be read from M-Bus telegram.
- Possibility to shutoff sections on the M-Bus output.

High security:

- Password protected
- Uses HTTPS with SSL during configuring

Typical applications:

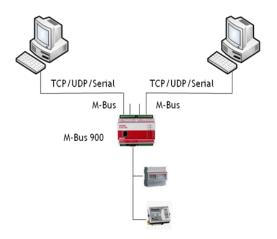
- Remote reading of electricity, heat, water, gas meters and other digital and analog signals from multiple directions simultaneously.
- Individual reading of apartments.
- Configure and test meters without shutting down the main system.
- Supports redundant remote reading systems.

Commonly for all uses of the PiiGAB M-Bus 900S is the possibility to connect to existing networks regardless what the networks are used for.

PiiGAB M-Bus 900S is a gateway/converter series developed for remote reading of M-Bus meters with up to four clients simultaneously. The remote reading can be done using local network, city network, internet, normal serial communication or via two existing M-Bus masters. It is also possible to connect a Modbus client in parallel to read values from an M-Bus meter to a PLC/DUC or a local display.

Remote control

Many things in the PiiGAB M-Bus 900S are handled through remote control. For example if you wish to increase the total number of M-Bus loads, clients or other features, we will deliver a new license by e-mail which you can install in the web interface. The M-Bus loop's voltage and current can be read remotely. The different sections on the M-Bus output can also be turned on or off remotely to help during the configuration and testing.

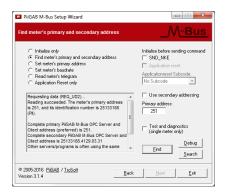


The PiiGAB M-Bus 900S is designed to transparently read all type of meters which support the M-Bus standard (EN13757). The gateway translates the electrical signals of M-Bus to respective clients. The transparent M-Bus message in the gateway and the message leaving one of the four ports is the original message, which can be sent e.g. to a database for further handling.



PiiGAB M-Bus Setup Wizard

It is also possible to continue to use our popular PiiGAB M-Bus Setup Wizard to find gateways on the network, test, search, and to configure meters. There is also the option to use it in parallel with other clients.



Technical specifications:

• **Ports:** 1xRJ45 for Ethernet, 1xRS232, 1xRS485, 2xM-Bus slave, 1xM-Bus master with four parallel outputs.

• Operating system: Full Linux 3.10.

Memory: 256MB Ram, 256MB Flash, Micro SD.
Power supply: 24V DC/AC (local power).

• Rated Current:

250mA (5 and 20 M-Bus loads) 350mA (60 M-Bus loads) 500mA (120 M-Bus loads)

• Coating: IP 20.

• Size: BxHxD 107.6 x 90 x 62.2

• Montage: DIN-rail

M-Bus: EN 1434-3, EN13757-2, -3, -4.
Number of M-Bus loads: 5, 20, 60, 120.
CE markings: Emission and Immission.

Add-on features:

Here follows a list of all add-on features for PiiGAB M-Bus 900S. All features have a separate data sheet.

M-Bus ASCII

In cases where there is a need of reading M-Bus meters to a superior system without buying or implementing an M-Bus driver we can offer our M-Bus ASCII protocol. This protocol calls the built in M-Bus client, which in turn handles all the communication with the actual meters.

M-Bus to Modbus

The PiiGAB M-Bus 900S includes the option to read M-Bus meters from Modbus through a virtual Modbus slave. For sites where there are no M-Bus drivers/clients and where only Modbus is available the MBus2Modbus add-on can allow the M-Bus meters to be read. Inside the PiiGAB M-Bus 900S is the same M-Bus client as in the M-Bus OPC-server which will handle all communication. The Modbus slave supports both Modbus TCP and Modbus RTU protocols.

Modbus to M-Bus

The Modbus2MBus application will allow any Modbus devices/slaves to be combined in an M-Bus network. Thorugh the PiiGAB M-Bus 900S all Modbus devices will be seen as virtual M-Bus meters with their own M-Bus primary and secondary addresses on the M-Bus network.

QuickPost

You can let the PiiGAB M-Bus 900S read the M-Bus meter by itself and send the information to an FTP or HttpPost server with the QuickPost application. There is no need for a server to handle all communications. QuickPost will be considered an M-Bus client for the PiiGAB M-Bus 900S and use one of the slave ports. The other slave port can still be used for other clients.

Order information:

Order number
PI-900S/M-Bus loads/Clients
M-Bus loads
5, 20, 20, 120
Clients
1, 2, 4

Supplementary modules:

Description
M-Bus to Modbus
Modbus to M-Bus
QuickPost