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Intesis M-BUS to Modbus TCP Server Gateway



Product Information

Specifications

• Product Name: M-BUS to Modbus TCP Server Gateway

• User Manual Version: 1.0.3

• Publication Date: 2025-07-21

Description and Order Codes

INMBSMEBxxx0100 Protocol Translator Gateway

M-Bus to Modbus TCP server gateway

ORDER CODE	LEGACY ORDER CODE
INMBSMEB0200100	IBMBSMEB0200100
INMBSMEB0500100	IBMBSMEB0500100

NOTICE

The order code may vary depending on the product seller and the buyer's location.

Gateway Capacity

Element	INMBSME B0200100	INMBSME B0500100	Notes
Type of Modbus client devices	Modbus TCP		Those supporting the Modbus protocol . Communication over TCP/IP.
Number of Modb us client devices	Up to five TCP connections		Number of Modbus client devices sup ported by the gateway.
Number of Modb us registers	500	1250	Maximum number of points that can b e defined in the virtual Modbus server device inside the gateway.
Type of M-Bus d evices	M-Bus EIA-485 slave devices		Those supporting the M-Bus EN- 1434-3 Standard. Communication over EIA-485.
Number of M-Bu s slave devices	20	50	Number of M-Bus slave devices supported by the gateway.
Number of M-Bu s signals	500	1250	Number of M-Bus signals (readings in the meters) that can be read from the gateway.

General Information

Intended Use of the User Manual

- This manual contains the main features of this Intesis gateway and the instructions for its appropriate installation, configuration, and operation.
- Any person who installs, configures, or operates this gateway or any associated equipment should be aware of this manual's contents.
- Keep this manual for future reference during the installation, configuration, and operation.

General Safety Information

IMPORTANT

Follow these instructions carefully. Improper work may seriously harm your health and damage the gateway and/or any other equipment connected to it.

- Only technical personnel, following these instructions and the country legislation for installing electrical equipment, can install and manipulate this gateway.
- Install this gateway indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.
- Preferably, mount this gateway on a DIN rail inside a grounded metallic cabinet, following the instructions in this manual.
- If mounting on a wall, firmly fix this gateway on a non-vibrating surface, following the instructions in this manual. Connect this gateway only to networks without routing to the outside plant.
- All communication ports are considered for indoor use and must only be connected to SELV circuits.
- Disconnect all systems from power before manipulating and connecting them to the gateway.
- Use SELV-rated NEC class 2 or limited power source (LPS) power supply.

MANDATORY GROUND CONNECTION

- YOU MUST connect the gateway to the installation ground terminal. Always use the gateway's dedicated connector.
- NEVER use the positive or negative gateway's connectors to establish this
 connection. Not following this indication can cause ground loops and damage the
 gateway and/or any other equipment connected to it.
- If the power supply includes a ground connection, that terminal must be connected to ground.
- Use a circuit breaker between the gateway and the power supply. Rating: 250 V, 6 A.
- Supply the correct voltage to power the gateway. The admitted range is detailed in the technical specifications table.
- Respect the expected polarity of power and communication cables when connecting them to the gateway. Safety instructions in other languages can be found here.

Admonition Messages and Symbols

. A CAUTION

Instruction that must be followed to avoid a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.

. PIMPORTANT

Instruction that must be followed to avoid a risk of reduced functionality and/or damage to the equipment or to avoid a network security risk.

. NOTE

Additional information which may facilitate installation and/or operation.



Helpful advice and suggestions.

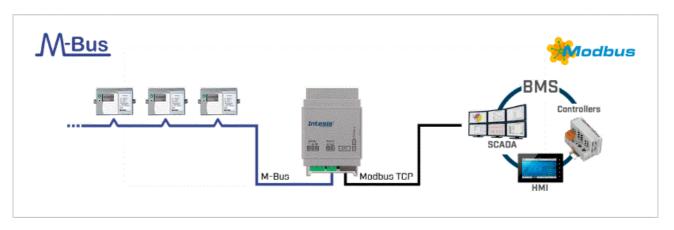


Remarkable Information.

Overview

- This Intesis® gateway allows to integrate M-Bus devices into Modbus TCP systems easily.
- The aim of this integration is to make M-Bus devices accessible from a Modbus control system or device to get the same behavior as if the M-Bus device was part of the Modbus installation.
- For this, the Intesis gateway acts as a Modbus TCP server device in its Modbus interface, allowing it to read/write points from the Modbus client device(s). From the M-Bus point of view, the gateway acts as an M-Bus level converter and Master device (EN-1434-3). The gateway performs the readings of the M-Bus slave device(s) by automatic continuous polling or on demand (to reduce battery consumption).
- The gateway configuration is carried out through the Intesis MAPS configuration tool.

Figure 1. Integration of M-Bus devices into Modbus TCP installations



IMPORTANT

This document assumes that the user is familiar with Modbus and M-Bus technologies and their technical terms.

Inside the Package

ITEMS INCLUDED

- Intesis INMBSMEBxxx0100 Protocol Translator Gateway
- Installation guide

Gateway Main Features

- Embedded level converter. Direct connection to M-Bus meters with no extra hardware required.
- Scan function: detect M-Bus meters and their available registers automatically.
- Import/Export of M-Bus meter templates. Reduce commissioning time when adding multiple meters of the same type.
- Baud rate configurable within the M-Bus allowed range (300 to 9600 bps. The devices are normally configured at 2400 bps).
- Specific parameters and timeouts are available to maximize compatibility with any possible peculiarity between different meter manufacturers.
- Availability of variables for communication errors, both at meter and general level,
 helping you to know if the communication with one or more meters has failed.
- DIN rail and wall mounting case.
- Flexible configuration using the Intesis MAPS configuration tool.

Gateway General Functionality

- This gateway acts as a server on its Modbus side and as a master on its M-Bus interface, thus allowing the integration of M-Bus devices into a Modbus system.
- The gateway is continuously polling the devices (together or individually), storing in its
 memory the current status of every signal you want to track, and serving this data to
 the installation when requested. This continuous polling can be activated/deactivated
 through a Modbus signal. It is also possible to configure the gateway to make a single
 polling of the meters (refresh of readings) at startup.
- Primary or secondary addressing is allowed for M-Bus devices. When a signal status changes, the gateway sends a write telegram to the installation, waits for the response, and performs the corresponding action.
- This action can be: force a polling of a specific M-Bus device or force a polling of all
 M-Bus devices. This can also be forced from the Modbus side at any time by writing a
 1 in the corresponding binary point specially enabled for this purpose.

Other M-Bus information accessible from Modbus, using specific points of the gateway, is:

- Bus activity: Indicates if meters are currently being polled or polling is on standby.
- M-Bus status of every meter: This is sent by the own meter with every poll and indicates the internal status, which is manufacturer specific in every case.

A lack of response from a signal activates a communication error, allowing you to know which signal from which M-Bus device is not correctly working. There is also a general communication error available that will be active whenever the communication with one or more M-Bus meters has failed.

Hardware

Mounting

IMPORTANT

Before mounting, please ensure that the chosen installation place preserves the gateway from direct solar radiation, water, high relative humidity, or dust.

NOTE

Mount the gateway on a wall or over a DIN rail. We recommend the DIN rail mounting option, preferably inside a grounded metallic industrial cabinet.

IMPORTANT

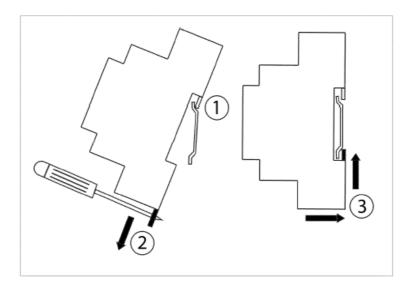
Ensure the gateway has sufficient clearances for all connections when mounted. See Dimensions (page 13).

DIN RAIL MOUNTING

- 1. Fit the gateway's top-side clip in the upper edge of the DIN rail.
- 2. Press the low side of the gateway gently to lock it in the DIN rail.
- 3. Make sure the gateway is firmly fixed.

NOTE

For some DIN rails, to complete step 2, you may need a small screwdriver or similar to pull the bottom clip down.



WALL MOUNTING

IMPORTANT

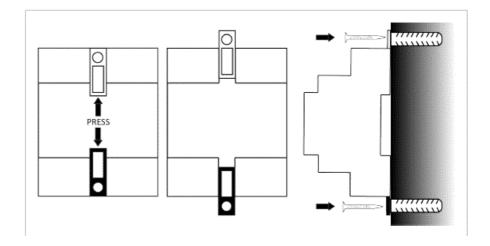
For reasons of security, the maximum height for wall mounting is two meters (6.5 feet).

- 1. Press the rear panel clips outwards until you hear a click.
- 2. Use the clip holes to screw the gateway to the wall.

NOTE

Use M3 screws, 25mm (1") length.

3. Make sure the gateway is firmly fixed.



Connection

CAUTION

Disconnect all systems from power before manipulating and connecting them to the gateway.

• IMPORTANT

Keep communication cables away from power and ground wires.

• NOTE

Mount the gateway in the desired place before wiring it.

Gateway Connectors

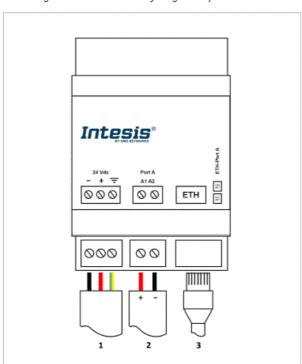


Figure 2. General view of all gateway connectors

1. Power supply: 24 VDC, Max.: 220 mA, 5.2 W

2. Port A: M-Bus port, for M-Bus bus connection.

3. **Ethernet port:** For Modbus TCP connection.

Port A connectors	M-Bus wires
A1	+
A2	_

NOTE

You can also use the Ethernet Port to connect the gateway to the PC for configuration purposes.

WIRING THE CONNECTORS

IMPORTANT

For all connectors, use solid or stranded wires (twisted or with ferrule).

Cross-section/gauge per terminal:

• One core: 0.2 .. 2.5 mm2 / 24 .. 11 AWG

• Two cores: 0.2 .. 1.5 mm2 / 24 .. 15 AWG

• Three cores: Not permitted

NOTE

To know more about each port's specifications, see Technical Specifications (page 12).

Common Connections

Connecting the Gateway to the Power Supply

MANDATORY GROUND CONNECTION



YOU MUST connect the gateway to the installation ground terminal. Always use the gateway's dedicated connector.

NEVER use the positive or negative gateway's connectors to establish this connection. Not following this indication can cause ground loops and damage the gateway and/or any other equipment connected to it.

If the power supply includes a ground connection, that terminal must be connected to ground.

The power supply connector is a green pluggable terminal block (3 poles) labeled as 24Vdc.

IMPORTANT

- Use a SELV-rated NEC class 2 or limited power source (LPS) power supply.
- Connect the gateway's ground terminal to the installation grounding.
- A wrong connection may cause earth loops that can damage the Intesis gateway and/or any other system equipment.

Apply the voltage within the admitted range and of enough power:

24 VDC, Max.: 220 mA, 5.2 W

IMPORTANT

Respect the polarity labeled on the power connector for the positive and negative wires.

Connection Procedure for M-Bus

- The gateway connects directly to the M-Bus system without requiring any external RS-232 or EIA-485 to M-Bus level converter.
- Connect the M-Bus bus to connectors A1 (+) and A2 (-) of the gateway's Port A.
 Respect the polarity.
- Remember that the gateway provides 36 VDC M-Bus voltage to the bus, acting also as an M-Bus level converter.
- If no response from the M-Bus device(s) to the frames sent by the gateway is received, check that they are operative and reachable from the network connection used by the gateway.

Connection Procedure for Modbus TCP

NOTE

Remember to check the Common Connections (page 10).

Connect the Modbus TCP Ethernet cable to the gateway's Ethernet Port.

• IMPORTANT

Use a straight Ethernet UTP/FTP CAT5 or higher cable.

• IMPORTANT

When commissioning the gateway for the first time, DHCP will be enabled for 30 seconds. After that time, the default IP address 192.168.100.246 will be set.

• NOTE

The default port is 502.

• IMPORTANT

If communicating through the LAN of the building, contact the network administrator and make sure traffic on the used port is allowed through all LAN paths.

Technical Specifications

Housing	Plastic, type PC (UL 94 V-0). Color: Light Grey. RAL 7035Net d imensions (HxWxD): 93 x 53 x 58 mm / 3.6 x 2.1 x 2.3"
Mounting	WallDIN rail (recommended mounting) EN60715 TH35
Terminal wiring F or power supply and low-voltagesig nals	 Per terminal: solid wires or stranded wires (twisted or with f errule) Wire cross-section/gauge: One core: 0.2 mm² 2.5 mm² (24 11 AWG) Two cores: 0.2 mm² 1.5 mm² (24 15 AWG) Three cores: Not permitted For distances longer than 3.05 meters (10 feet), use Class 2 ca bles.

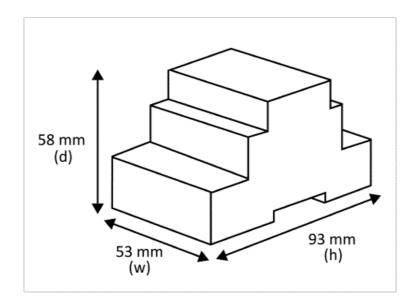
Power	 1 x Green pluggable terminal block (3 poles) 24 VDC, Max.: 220 mA, 5.2 W Recommended: 24 VDC, 220 mA 	
Ethernet	1 x Ethernet 10/100 Mbps RJ45	
Port A	 1 x M-Bus port: pluggable terminal block (two poles) M-Bus p ower consumption: Normal operating level: 90 mA (50 M-Bus unit loads + 20%) Collision detection: 25 mA Overload level: 215 mA Voltage rating: 36 VDC 	
LED indicators	2 x Onboard LED indicatorsEthernet Link/Speed	
Operational temper ature	Celsius: 0 60°C / Fahrenheit: 32 140°F	
Operational humidi	5 to 95%, no condensation	
Protection	IP20 (IEC60529)	

Dimensions

Net dimensions (HxWxD)

• **Millimeters:** 93 x 53 x 58 mm

• Inches: 3.6 x 2.1 x 2.3"



IMPORTANT

Ensure the gateway has sufficient clearance for all connections when mounted.

M-Bus System

General Description

The M-Bus ("Meter-Bus") is a European standard for remote reading of heat meters, and it is also usable for all other types of consumption meters, as well as for various sensors and actuators.

M-Bus standards are:

- EN 13757-2 (physical and link layer Wired M-Bus)
- EN 13757-3 (application layer)

Many manufacturers of energy meters, pulse counters, water meters, electricity meters, etc., add an M-Bus interface to their devices, enabling them to be interconnected and remotely monitored through a 2-wire bus based on the M-Bus standards. There are many manufacturers of these measurement devices incorporating the M-Bus interface, and also some other manufacturers of specific M-Bus communication devices such as bus repeaters, EIA-232/EIA-485 to M-Bus level converters, etc.

M-Bus Interface

 The gateway connects directly to the M-Bus system. No external level converter is required. Connection to the M-Bus is made via the EIA-485 connection. Notice that the gateway
also powers the bus, so no extra hardware is required to connect to M-Bus compatible
meters or devices.

M-Bus Signals

The gateway supports several meter magnitudes and units typically used on energy, electricity, water, and other meters. This information is required to add the desired signals when integrating meters manually, as this process is done through the Intesis MAPS configuration tool by setting the meters up and then adding the signals each meter uses and assigning them accordingly in the Signals tab (page 20).

NOTICE

- The type of signals available from each meter may differ depending on the manufacturer and model, so please refer to the device's technical documentation to determine the signals available for a given meter when adding meters manually.
- However, Intesis MAPS also offers a much quicker and simpler alternative method for meter detection in the form of a scanning function. This scan detects all meters available on the bus and their signals and imports each signal with the units and details each meter provides. These signals can then be matched with the corresponding Modbus registers in the Signals tab for integration with the BMS.

Modbus System

General Description

- The Modbus protocol is an application-layer messaging protocol developed by Modicon in 1979. It is used to establish client-server communication between intelligent devices over different types of buses or networks. The Intesis gateway supports Modbus TCP.
- Modbus is a request/reply protocol and offers services specified by function codes.
 Modbus function codes are elements of Modbus request/reply PDUs (Protocol Data Units).

ModBus Interface

The Intesis gateway acts as a server device in its Modbus interface; the interface for this model is the Ethernet port. To access the points and resources of the gateway from a Modbus client device, you must specify the Modbus register addresses configured inside the gateway as those configured inside the gateway corresponding to the signals of the field device protocol.

Functions Supported

Table 1. Modbus functions

#	Function	Read/Write
01	Read Coils	R
02	Read Discrete Inputs	R
03	Read Holding Registers	R
04	Read Input Registers	R
05	Write Single Coil	W
06	Write Single Register	W
15	Write Multiple Coils	W
16	Write Multiple Registers	W

- If poll records are used to read or write more than one register, the range of addresses requested must contain valid addresses; if not, the Intesis gateway will return the corresponding Modbus error code.
- All registers are of 2 bytes (16 bits)1, even if they are associated with signals of bit type on the other protocol's side. Its content is expressed in MSB .. LSB.2
- Modbus error codes are fully supported. They are sent whenever a non-valid Modbus action or address is required.

Modbus TCP

- Modbus TCP communication is characterized basically by the embedding of the Modbus RTU protocol into TCP/IP frames, which allows faster communication and a longer distance between client and server devices in comparison with RTU communication over a serial line. Another benefit is using common TCP/IP infrastructure in buildings and transmitting over WAN or the internet. It also allows the coexistence of one or more clients and, of course, one or more server devices in a given network, all interconnected through a TCP/IP-based network.
- Use the configuration tool to configure the IP settings of the gateway (DHCP status, own IP, netmask, and default gateway) and the TCP port.
- 1. **Default value.** The measurement-related registers can be configured to be 4 or 8 bytes (32 or 64 bits) in Intesis MAPS if required.
- 2. MSB: most significant bit; LSB: least significant bit

Address Map

The Modbus address map is fully configurable; any point in the gateway can be freely configured with the desired Modbus register address.

Modbus Server Interface Points Definition

- The Modbus registers are fully configurable through the Intesis MAPS configuration tool; any point in the gateway can be freely configured with the desired Modbus register address.
- Every point defined in the gateway has the following Modbus features associated with it:

Feature	Description
#Bits	1-bit16-bit32-bit

Data Codin g Format	 16/32 unsigned 16/32-bit signed (one's complement – C1) 16/32-bit signed (two's complement – C2) 16/32-bit Float 16/32-bit Bitfields Error comm.
Function C ode	 1 – Read coils. 2 – Read discrete inputs. 3 – Read holding registers. 4 – Read input registers. 5 – Write a single coil. 6 – Write a single register. 15 – Write multiple coils. 16 – Write multiple registers.
Byte Order	 Big Endian Little Endian Word Inverted Big Endian Word Inverted Little Endian
Register Ad dress	The Modbus register address inside the server device for the point.
Bit inside t he register	Bit inside the Modbus register (optional). The Intesis gateway allows bit decoding from generic 16 bits input/holding Modbus registers. Some de vices use the bit coding into 16 bits input/holding Modbus registers to e ncode digital values. These registers are generally accessible using M odbus function codes 03 and 04 (read holding/input registers).

• 0: Read Read/Write • 1: Trigger

• 2: Read/Write

Setup Process with the Configuration Tool

Prerequisites

For this integration, you need:

- The items delivered by HMS Networks:
 - The Intesis INMBSMEBxxx0100 Protocol Translator Gateway.
 - Link to download the configuration tool.
 - Product documentation.
- The respective M-Bus devices connected to the Port A of the gateway.
- A computer to run the Intesis MAPS configuration tool. Requirements:
 - Windows® 7 or higher.
 - Hard disk free space: 1 GB.
 - RAM: 4GB.
- An Ethernet cable.

Intesis MAPS Configuration and Monitoring Tool

Introduction

- Intesis MAPS is a software tool for the configuration and monitoring of the Intesis gateways. It has been designed and developed in-house, ensuring an up-to-date tool to get all the potential of our gateways. It is compatible with Windows® 7 and higher.
- The installation procedure and the main functions are explained in the Intesis MAPS
 user manual. Please also check the Intesis MAPS user manual for specific information
 about the different parameters and how to configure them.

Create a New Project from a Template

1. Open Intesis MAPS.

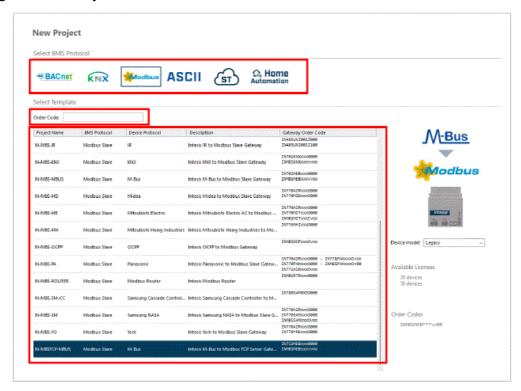
2. Click Create New Project in the Start menu on the left.

You can create a project from scratch using a template. To find the appropriate template, filter the search by:

- Clicking on the protocol logos.
- Typing the order code in the Order Code field.

NOTE

- The order code is printed on the silver label placed on the gateway's right side.
- Looking for the Project Name on the list: IN-MBSTCP-MBUS.



- 3. Select the desired template.
- 4. Click Next or double-click the template on the list.

NOTE

Templates are just a starting point for your integration. Depending on the type of integration, you may have to modify some parameters.

IMPORTANT

Don't forget to save your project on your computer before exiting Intesis MAPS. To do so, go to Project → Save or Save As. Later on, you can load the project to Intesis MAPS and continue with the configuration.

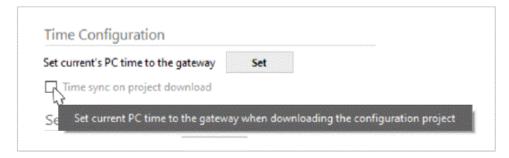
Main Menu Overview



The following sections provide an overview of the five tabs that compose the Intesis MAPS main menu. Through these options, you will establish a connection between the gateway and the computer, set up your project through the Configuration and Signals tabs, send it to the gateway, and monitor that everything works fine using the Diagnostic tab.

TIP

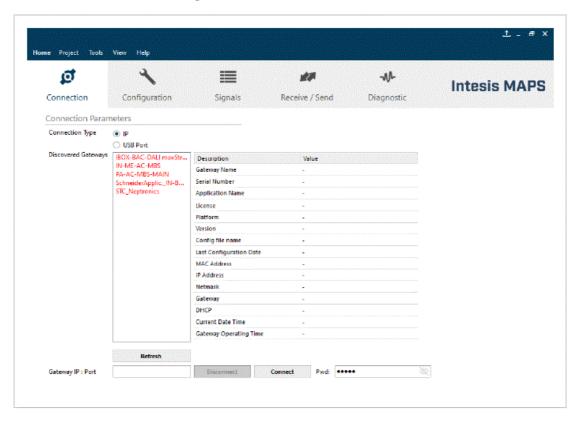
Tooltip: Hover the cursor over a field, and a message will appear indicating the purpose of the parameter.



Connection Tab

Click the Connection button in the menu bar to configure the gateway connection parameters.

Figure 3. Connection tab window



Configuration Tab

Select the Configuration tab to configure the connection parameters. This window contains three subsets of information: General (gateway general parameters), Modbus server (Modbus interface configuration), and M-Bus (M-Bus interface parameters).

ø 曲 -1/4-Intesis MAPS General Configuration IN-MRS-MRUS Connection IP Address Net Mask Default Getewn Conversions Edit Conversions Edit USB Host Edit USB Configuration Time Configuration Set current's PC time to the gateway Set Time sync on project download Security Edit Security Configuration Edit

Figure 4. Configuration tab window

All available objects, object instances, their corresponding Modbus register, and other main parameters are listed in the Signals tab. More information on each parameter and how to configure it can be found in the Intesis MAPS user manual.

ø Intesis MAPS Receive / Send Diagnostic General Comm Error
Force Bus Reading 0: Unaign - 0: Read 0: Comm Erro - 1: Trigger Activate Continuous Polling - 2: Read / Write 2: Continuous Polling Comm Error Device 0 5: M-BUS Status Comm Error Device 1 - 0: Read 0: Comm Error Status M-BUS Device 1 0: Unsigned - 0: Reed 5: M-BUS Status - O: Read 0: Comm Error 4: Force Device reading Status M-BUS Device 2 - 0: Read 5: M-BUS Status Meter! Rep2 0: Unsigned - 0: Read 6: Measure ✓ Meter1_Reg3
✓ Meter2_Reg1 - 0: Read 0: Unsigned 6: Measure Meter2_Reg2 Meter2_Reg3 6: Measure 6: Measure 20 Meter3 Reg1 0: Unsigned - O Read Meter 3 6 Measure Hide Disabled signals | Edit Columns | Import | Export | AA | t | 1 + (N) | 1 | - Check table

Figure 5. Signals tab for the Modbus - integration

Receive/Send Tab

Send:

Once you have finished setting the parameters, you have to send the configuration to the gateway:

Follow these steps:

- 1. Click the Send button.
 - If the gateway is still factory-set, you will be prompted to save the project on your
 PC. Once saved, the configuration is automatically sent to the gateway.
 - If you have already saved the project, the configuration is automatically sent to the gateway.
- 2. Connect again with the gateway after sending the file.



NOTICE

The gateway will reboot automatically once the new configuration is loaded. This process may take a few seconds.

Receive:

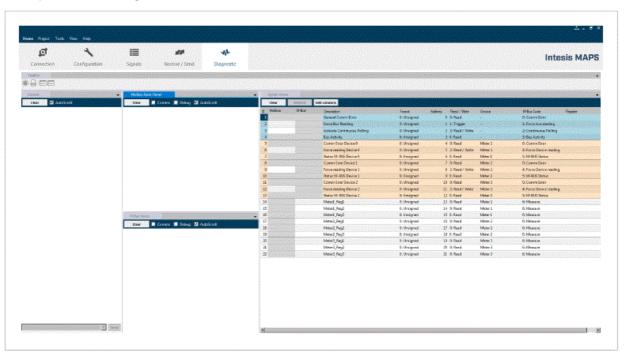
- Use this function to get the configuration of a gateway, for example, when you need to change some parameters of a gateway already mounted in an installation.
- Once the configuration is completed and sent, the gateway is already operative. Even so, you should check that everything is working correctly by entering the Diagnostic tab.

Diagnostic Tab

IMPORTANT

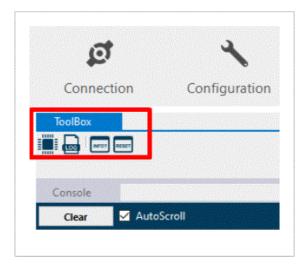
Connection with the gateway is required to use the diagnostic tools.

Figure 6. Diagnostic tab window. Find the ToolBox between the upper tabs bar and the Console view. Below it, from left to right: Console viewer, Protocol viewers (one above the other), and the Signals viewer



This section has two main parts:

ToolBox



Use the tools section to:

- Check the current hardware status of the gateway.
- Save communication logs to a ZIP file for diagnostic purposes.
- Get information on the gateway.
- · Reset the gateway.

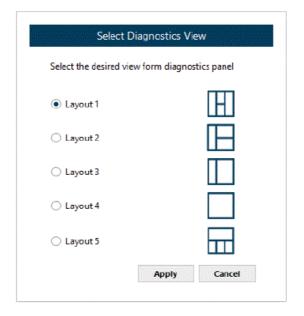
Viewers

Intesis MAPS provides several viewers:

- A generic console viewer for general information about communications and the gateway status.
- A viewer for both protocols to check their current status.
- A signals viewer to simulate the BMS behavior or check the system's current values.

The layout of these viewers can be modified:

• Using the Select Diagnostics View option from the View menu:



NOTE

Layouts 3 and 4 offer two different tabbed options:

- Fixed console to the left and tabbed browser for the other viewers
- Full tabbed browser
- Clicking and dragging the border of a viewer. To do so, place the cursor over the edge of a viewer. On the vertical edges, the cursor changes to to adjust the width, and on the horizontal edges, the cursor changes to to adjust the height.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HMS Networks: INMBSMEB0200100 INMBSMEB0500100

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FAQ

How many Modbus client devices are supported by the gateway?

The gateway supports up to 500 Modbus client devices.

What is the maximum number of M-Bus signals that can be read from the gateway?

The gateway can read up to 50 M-Bus signals from connected meters.

Documents / Resources



Intesis M-BUS to Modbus TCP Server Gateway [pdf] User Manual

v1, Version 1.0.3, M-BUS to Modbus TCP Server Gateway, M-BUS, Modbus TCP Server Gateway, TCP Server Gateway, Server Gateway, Gateway

References

- User Manual
- Intesis
- gateway, Intesis, M-BUS, M-BUS to Modbus TCP Server Gateway, Modbus TCP Server Gateway, Server Gateway, TCP Server Gateway, V1, Version 1.0.3

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