

# TRB143 M-Bus

[Main Page](#) > [TRB Gateways](#) > [TRB143](#) > [TRB143 Manual](#) > [TRB143 WebUI](#) > [TRB143 Services section](#) > **TRB143 M-Bus**

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## Contents

- [1 Summary](#)
- [2 M-Bus Settings](#)
- [3 Records](#)
  - [3.1 M-Bus Record](#)
  - [3.2 Request Configuration](#)
    - [3.2.1 Request Configuration Edit](#)
    - [3.2.2 Test Configuration](#)

## Summary

The **M-Bus (Meter Bus)** is a cost-effective fieldbus communication protocol for transmitting energy consumption data. A central client – in this case TRB143 – communicates via a two-wire bus (up to max. 250 servers per segment) with bus devices (e.g., heat meter, water meter, electric meter, gas meter).

This manual page provides an overview of the M-Bus functionality in TRB143 devices.

## M-Bus Settings

The **M-Bus Settings** section is used to configure the general service functionality. The figure below is an example of the M-Bus Settings and the table below provides information on the fields contained in that section:



Field	Value	Description
Enable	off   on; default: <b>off</b>	Enables the service.
Baud rate	300   600   1200   2400   4800   9600 ; default: <b>2400</b>	Specifies the M-Bus server network baud rate.
Database location	RAM memory   Flash memory; default: <b>RAM memory</b>	Specifies where the database will be stored..

## Records

By default there are no **Records** instances created. To start configuring, add a new record using the **Add New Instance** section below.



## M-Bus Record

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The **M-Bus Record** section is used to configure the general record instance. The figure below is an example of the M-Bus Record and the table below provides information on the fields contained in that section:



Field	Value	Description
Enable	off   on; default: <b>off</b>	Enables the service.
Name	string; default: <b>none</b>	Name used for distinguishing purposes.
Period	integer [1..86400]; default: <b>60</b>	Specifies the period how often record data will be collected.
String before data	string; default: <b>none</b>	String that will be appended before request data.
String between data	string; default: <b>none</b>	String that will be appended between request data.
String after data	string; default: <b>none</b>	String that will be appended after request data.
Failure mode	Never   <b>Any requests failed</b>   <b>All requests failed</b> ; default: <b>Never</b>	Specifies when whole record is considered as failure.
<b>Store a failure message</b>	off   on; default: <b>off</b>	Select whether to store a failure message in the database or do nothing on failure.

## Request Configuration

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In this section, you can configure requests from servers. By default there are no instances created. To add a new instance and start configuring press the **Add** button.



### Request Configuration Edit

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Field	Value	Description
Enable	off   on; default: <b>off</b>	Enables request processing.
Server address	int   hexstring; default: <b>none</b>	Address of the server to be inquired.
Data type	XML   HEX   BIN   JSON; default: <b>XML</b>	Data type to process the received data.
Error value	string; default: <b>none</b>	Changes request data to this value if request fails.

FCB toggle	off   on; default: <b>on</b>	FCB (Frame Count-Bit): One-bit counter for reliable server-client communication; some devices have special uses for it.
Test configuration button; default: -		Tests the current configuration.

## Test Configuration

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Before saving, you can check if your configuration works accordingly by pressing the **Test Configuration** button. You should see the data in a field below:

