

TRB143 M-Bus

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The information in this page is updated in accordance with firmware version [TRB1_R_00.07.06.10](#).



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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: off	Enables the service.
Baud rate	300 600 1200 2400 4800 9600 ; default: 2400	Specifies the M-Bus server network baud rate.
Database location	RAM memory Flash memory; default: RAM memory	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

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

Request Configuration

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



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

FCB toggle	off on; default: on	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

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:

