

# 16.13 M-Bus

## Overview

M-Bus or Meter-Bus is a protocol for the remote reading of water, gas, or electricity meters. M-Bus is also usable for other types of consumption meters, such as heating systems or water meters. The M-Bus interface is made for communication on two wires, making it cost-effective. M-bus over TCP is also supported. When configured, meters will deliver the data they have collected to a WCCLite RTU that is connected at periodic intervals (scan\_rate\_ms) to read all utility meters.

## Configuration

M-Bus parameters for *Device* tab

| Parameter     | Type    | Description   | Required         | Default value<br>(when not specified) | Range   |       |
|---------------|---------|---|------------------|---------------------------------------|---|-------|
|               |         |   |                  |                                       | Min   | Max   |
| name          | string  | User-friendly device name   | Yes              |                                       |   |       |
| description   | string  | Description of a device   | No               |                                       |   |       |
| device_alias  | string  | Alphanumeric string to identify a device                                    | Yes              |                                       |   |       |
| enable        | boolean | Enabling/disabling a device   | No               | 1                                     | 0   | 1     |
| protocol      | string  | Protocol to be used.  | Yes              |                                       | mbus serial, mbus tcp   |       |
| scan_rate_ms  | integer | All reads and writes will be executed within the timeframe in milliseconds. | No               | 10000                                 |   |       |
| poll_delay_ms | integer | Minimum time delay in milliseconds to wait before sending any data on port. | No               | 200                                   |   |       |
| timeout_ms    | integer | Timeout of waiting for an incoming response in milliseconds                 | Yes              |                                       | 0   | 60000 |
| address       | integer | Device address  | Yes              |                                       |   |       |
| device        | string  | Communication port  | Yes (for serial) |                                       | PORT1   | PORT2 |
| baudrate      | integer | Communication speed, baud/s   | No (for serial)  | 9600                                  | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 |       |
| databits      | integer | Data bit count for communication  | No (for serial ) | 8                                     | 6   | 9     |
| stopbits      | integer | Stop bit count for communication  | No (for serial)  | 1                                     | 1   | 2     |

|                    |         |   |                 |      |                 |       |
|--------------------|---------|---|-----------------|------|-----------------|-------|
| parity             | string  | Communication parity option                 | No (for serial) | none | none, even, odd |       |
| serial_close_delay | integer | Delay before closing the serial connection. | No (for serial) | 400  |                 |       |
| ip                 | string  | The IP address of the TCP slave device      | Yes (for TCP).  |      |                 |       |
| port               | integer | TCP communication port                      | Yes (for TCP)   |      | 0               | 65535 |

## M-Bus parameters for the *Signals* tab

| Parameter    | Type    | Description  | Required | Default value<br>(when not specified) | Range |     |
|--------------|---------|--|----------|---------------------------------------|-------|-----|
|              |         |  |          |                                       | Min   | Max |
| signal_name  | string  | User-friendly signal name                                | Yes      |                                       |       |     |
| device_alias | string  | Device alias from a Devices tab                          | Yes      |                                       |       |     |
| signal_alias | string  | Unique alphanumeric name of the signal to be used        | Yes      |                                       |       |     |
| enable       | boolean | Enabling/disabling of an individual signal               | No       | 1                                     | 0     | 1   |
| log          | integer | Enable logging in the event log                          | No       | 0                                     |       |     |
| number_type  | string  | Type of a number (FLOAT, DOUBLE, DIGITAL, etc.)          | Yes      |                                       |       |     |
| job_todo     | string  | Tag job as single or multiple comma-separated OBIS codes | Yes      |                                       |       |     |
| tag_job_todo | string  | Tag sub job  | Yes      |                                       |       |     |

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