

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 (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 (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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