

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 WCC Lite RTU that is connected at periodic intervals (scan_rate_ms) to read all utility meters.

Configuration

M-Bus parameters for the *Device* tab

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

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

M-Bus parameters for the *Signals* tab

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