Honeywell | Water Metering

FALCON Pulse/M-Bus

Data flexibility and quality for remote reading applications



- Communication module for water meters:
  - H4000 / C4000
  - V200 / V210 / S150 / S220
- M-Bus acc. to EN13757, OMS compliant
- Pulse output (acc. ISO22158) configurable via M-Bus

Technical specifications

Type	Combined Pulse and M-Bus module
Protection class	IP 68
Cable	LiYY 5 x 0.14
Battery	3.6V lithium
Power supply	By M-Bus; battery supply in pulse mode or if M-Bus fails
M-Bus load	1 Load
Battery lifetime	15 years typical (at 25°C ambient temperature)
Sensing	Inductive with 3 coils, non-reactive
Colour	Grey
Operating temperature	-15°C to +65°C
Storage temperature	-20°C to 70°C
Standard pulse setting	100 litre per pulse; 100 ms pulse length

Pulse

Pulse rates	1...10000 litres per pulse; configurable
Pulse width	10...500 ms; configurable
Output options	1. Compensated pulses + Alarm line 2. Forward pulses + Backward pulses 3. All pulses + Direction flag 4. 2 compensated pulse outputs with different pulse rates
Alarm line	Wirecut (configurable: Battery low; Backflow; Tamper)
Wire colours Pulse	White (+) and Brown (-); Red (Alarm/2nd output)

M-Bus

Protocol	M-Bus according EN13757 OMS compatible
Supported baud rates	300, 2400, 9600 baud (auto bauding)
Wire colours M-Bus	Green / Yellow; reverse polarity protection

FALCON Pulse/M-Bus module

Technical Data

M-Bus data records short telegram:

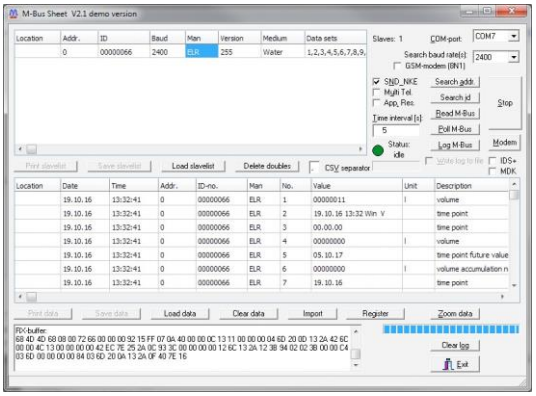
- Current meter index
- Current date and time
- Total backflow volume
- Yearly due date value (default, 01.01. of each year)
- Current flow rate
- Max. flow rate value of the month with Datestamp
- Backflow alarm date
- Manipulation alarm date (Removal and magnetic fraud)

M-Bus data records long telegram:

- Same as short telegram
- 13 last monthly index values
- 13 last monthly max. flow rate values with date

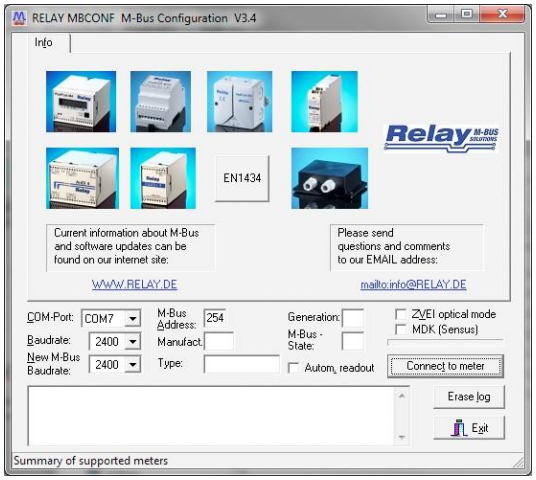
The read out is possible with a standard M-Bus software. We recommend the tool MBSheet from Relay*.

* Relay GmbH, www.relay.de/en, demo version free of charge



Module configuration

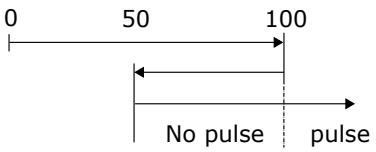
The configuration of the M-Bus parameters and the pulse output settings is possible with the software tool MBConf*. A M-Bus connection with the module is required.



Configurable pulse values

The pulse rate can be configured as an integer value from 1 – 10000 litres/pulse. The pulse length can be set between 10 – 500 ms. The factory setting of the pulse output is 100 litre/pulse, 100 ms pulse length and compensated pulses. (Other configurations as “All pulses+direction flag”or “separate FW+BW pulses” are possible)

During a backward flow no pulses are send to the output. After renewed forward flow first the pulse numbers which are stored in the memory are deleted. This makes sure that the increments are in line with the original meter index.



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