

aquadata® M-Bus

The aquadata® M-Bus system module supplies an M-Bus protocol and pulses for triggering devices controlling remote displays, data transmission and filling procedures. The system module has an internal battery when there is a power failure to the M-Bus.



aquadata® M-Bus	Article No. 80517
Pulse value	1 litre* ; can be set to 1 – 1,000 litre
Power supply	max. 1.5 mA (standard load), battery rating
Internal battery	3 V Li, 6 + 4 reserve years operating life
Pulse output**	Open Collector, SO compatible to DIN 43864
Reverse flow monitoring	yes, with compensation
Max. switching capacity	27 VDC, 27 mA
Pulse duration	50 ms
Data interface	M-Bus to EN 13757 (EN 1434-3), 300/2400 baud
Address	primary address 0-250 / secondary address 8-digit extended secondary address with manufacturer's ID
M-Bus data readout	current meter reading, due date, next due date,
Telegram 1 (FCB:0)	consumption at due date, identification number
M-Bus data readout	as Telegram 1 including 12 values of previous month
Telegram 2 (FCB:1)	
Protocol	production number, medium, pulse value, primary address, meter reading, date, time, due date, meter reading on due date
Meter reading	0 m³; format: 00000,000 m³; freely selectable
Medium	water* , cold water, hot water freely selectable
Due date	31.12.* , freely selectable
Parameterisation software	AMBUS® WIN
Ingress protection	IP 68
Ambient temperature, operation	0 °C to 50 °C
Ambient temperature, storage	- 20 °C to 60 °C
Ambient humidity	max. 98 % relative humidity, condensation permitted
Cable length	1.5 m, permanently attached, 4 x 0.14 mm² with cable end sleeves
Pin assignment	M-Bus: white/black pulse: brown (+) / blue (-)

* factory setting

** electrically connected with M-Bus

aquatarif®

The aquatarif® system module stores values on actual consumption and those of the previous year, peaks, the previous 400 days and 15 months as well as days with downtimes and leakages.



aquatarif®	Article No. 80119	Article No. 80220
Optical interface acc. to IEC 62056-21 (IEC 1107) for reading data	yes	-
CS interface with permanently attached 5 m cable	-	yes
Power supply	internal battery operating life >10 years	internal battery operating life >10 years
Ingress protection	IP66	IP68
Ambient temperature	0 to 50 °C	0 to 50 °C
Transport and storage temperature	-20 to 70 °C	-20 to 70 °C
Permissible ambient humidity	max. 98 % relative humidity	max. 98 % relative humidity, condensation permitted

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aquapuls®/aquapuls® NAMUR

The aquapuls® system module supplies pulses for controlling instruments, remote display, transmission and filling control units.



aquapuls®	
Pulse weighting 1 litre	Article No. 80113
Pulse weighting 10 litres	Article No. 80114
Pulse weighting 100 litres	Article No. 80115
Power supply	internal battery
Operating life	MnO ₂ /Li 3 V battery >15 years
Pulse duration	1 litre = 50 ms / 100 litres = 5 s
Maximum switching capacity	48 VDC, 220 mA
Reverse flow monitoring	yes, with compensation
Ingress protection	IP 68
Ambient temperature	0 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	max. 98 % relative humidity, condensation permitted
Cable length, permanently attached	1.5 m

aquapuls® NAMUR

Pulse weighting 1 litre	Article No. 80117
Pulse weighting 100 litres	Article No. 80119
Power supply	NAMUR DIN 19234
Pulse duration	50 ms
Maximum switching capacity	27 VDC, 27 mA
Reverse flow monitoring	yes, with compensation
Can be used as transmitter for S0 interface	acc. to DIN 43864
Ingress protection	IP 68
Ambient temperature	0 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	max. 98 % relative humidity, condensation permitted
Cable length, permanently attached	1.5 m

aquainfo® CS

The aquainfo® mounting set and appropriate system module is used in combination with aquaonline® and gasdata® for remote and on-site readings. The aquainfo® CS mounting set is used in combination with aquatarif® and aquaonline® CS for remote and on-site readings of CS interface values.



Mounting sets

Art. No. 80121	aquainfo® mounting set	
Art. No. 80388	Volag aquainfo® CS-1 mounting set	1 channel
Art. No. 80389	Volag aquainfo® CS-2 mounting set	2 channels
Art. No. 93115	Volag aquainfo® CS-4 mounting set	4 channels
Art. No. 93116	Volag aquainfo® CS-8 mounting set	8 channels
Art. No. 80390	BKW aquainfo® CS-1 mounting set	1 channel
Art. No. 80391	BKW aquainfo® CS-2 mounting set	2 channels

The aquainfo® / aquainfo® CS mounting set can be used with the following accessories:

Art. No.	Feller surface socket with cap, IP55
Art. No.	Feller cover with cap (without flush socket), IP55
Art. No.	Hager housing for rail and wall mounting, IP10

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