



EW1xxC M-Bus Series

M-Bus modules for EW110 and EW171 Water Meter

APPLICATION

The AT-MBUS modules EWA110C-MBUS and EWA171C-MBUS support serial M-Bus connectivity according to PN-EN 13757-3. The modules are based on a microprocessor chip.

The open data communication system enables connectivity of water meters equipped with the modules with the existing M-Bus networks from thirdparty manufacturers.

The modules are components of remote water meter reading transmission systems. The basic component of the system is the module, installed directly on the water meter.

The optical scanning of the counter reflective indicator eliminates the drawbacks of the reed switch pulse transmitter, while assuring reliable and accurate reading.

The modules are immune to magnetic disturbances and resist strong external EM fields.

The modules can be installed on water meter counters EW110 and EW171 which support the AT-MBUS modules in standard versions. The M-Bus modules are widely applied in wired reading systems, especially with water meters installed in large shopping centres or residential buildings.



SPECIAL FEATURES

- Compatible with supported water meters
- Easy installation: requires no tampering with the verification marks of water meters
- Immune to external EM fields
- IP65 protection rating
- Battery life: 10 years
- Configurable event thresholds and data transmission speed: 300 or 2400 baud
- Data transmission with universal information fields: compatible with universal reading systems

TECHNICAL DATA

General Specifications				
AT-MBUS- module	EWA110C1520-MBUS	EWA110C2540-MBUS	EWA171C-MBUS	
Water meter DN [mm]:	DN15 - DN20	DN25 - DN40	DN40 - DN125	DN150 - DN300
Supported water meter type:	EW110	EW110	EW171	
Minimum reading resolution [dm3]:	1	100	100	1000
Connection cable:	2-wire, standard length: 1.5 m			
Power supply:	Main: M-Bus / stand-by: Li-ion battery			
Addressing:	Primary and secondary (ref. PN-EN 13757-3)			
Operating temperatures				
Max. operating temperature:	60 °C			
Min. operating temperature:	0.1 °C			

Events and alarms

- No flow
- Low battery
- Processor reset
- Optical detector failure
- Min/max flow indication
- Reverse flow
- Strong ambient light (module removal)
- Water leak
- External magnetic field detection

Basic data frame contents

- Serial number
- Device date and time
- Current volume
- Current flow rate
- Logged volume with time stamp
- Event and alarm flags
- Module operation time

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	-10 °C
Max. ambient temperature:	70 °C

*non condensing

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

OS-No.:	Description:	EAN Code:
EWA110C1520-MBUS	M-BUS CLIP ON MODULE FOR EW110, DN15 - DN20	4029289077059
EWA110C2540-MBUS	M-BUS CLIP ON MODULE FOR EW110, DN25 - DN40	4029289077868
EWA171C-MBUS	M-BUS CLIP ON MODULE FOR EW171	4029289077080

For more information

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Subject to change

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