



Přídavný M-bus modul pro vodoměry

WFZ31

The M-bus add-on module acquires and processes the information delivered by a mechanical water meter. Data jsou vyčítána M-bus masterem přes M-bus.

- **Detekce zpětného průtoku**
- **Záložní baterie pro uchování dat**
- **Modul může být kdykoliv vyměněn**

Použití

The M-bus add-on module is used to integrate a mechanical water meter in an M-bus system. It can be retrofitted at any time.

Functions

The M-bus add-on module is fitted to a mechanical water meter which has an opening to accommodate the module and is then secured with a screw. The WZF31 module acquires the information from the water meter and passes it on to the M-bus system.

Readout parameters

The M-bus module can read out the following parameters:

- Addressing (primary/secondary address)
- Identification of manufacturer
- Current consumption values (hot or cold water)
- Current time of day/date
- Due date
- Due date value
- 12 monthly values including monthly due date
- Device number, 8 digits (production number)
- Medium
- Device generation

Type summary

The following add-on module is available:

<i>Description</i>	<i>Stock number</i>	<i>Product number</i>
M-bus add-on module for water meters	S55563-F136	WFZ31

Ordering

When ordering, please give quantity, description, stock number and product number.

<i>Product number</i>	<i>Stock number</i>	<i>Designation</i>
ASN	SSN	Product designation
WFZ31	S55563-F136	M-bus add on module

Scope of delivery

The add-on module is supplied complete with Mounting Instructions in several languages and the necessary mounting material (countersunk-head screw 2.2x13 mm and adhesive seal).

Languages

The Operating and Mounting Instructions are supplied in 18 languages: Bulgarian, Croatian, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Slovakian, Slovenian, Spanish and Turkish.

Equipment combinations

The M-bus add-on module can be used in connection with the following components:

<i>Description</i>	<i>Product number</i>	<i>Documentation</i>
Mechanical water meters	WFK30... WFW30...	CE1N5326
Measuring cell water meter	WMK10.D WMW10.D	CE1N5327

Technical design

Detection of reverse flow	The WFZ31 module is capable of detecting flow passing through the water meter in the wrong direction. Any reverse flow is subtracted from the current cumulated value.
Tamperproof	Since the module captures the water meter's data optically, tampering with an external magnet is not possible.
Parameterization	Using readout software, the following parameters can be set on the module: <ul style="list-style-type: none">• Primární adresa od 0 do 250• Sekundární adresa (libovolných 8-číslic)• Aktuální kumulovaná spotřeba• Médium (studená voda/teplá voda)• Stanovený den

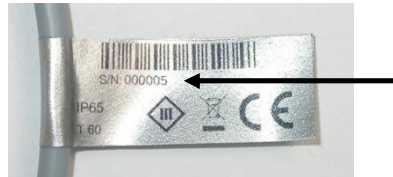
Notes

Mounting

When mounting the add-on module, proceed as follows:

1. Remove the interface cover from the water meter
2. Fit module and secure it with the screw
3. Connect module to the M-bus system (stranded wires can be interchanged)
4. Place the adhesive seal on the screw

Shortly after installation, the add-on module automatically identifies the water meter's scanning disc. It cannot acquire the initial meter reading and the water meter number (address). These variables can be parameterized via the M-bus.



The module's label shows the respective M-bus default secondary address.

The supply voltage required for operation is provided by the M-bus system. The module's backup battery ensures that no data will be lost should the M-bus system's power supply break down.

The module has no impact on the acquisition of consumption and can therefore be retrofitted at any time.

Sealing

When the module is fitted, its fixing screw must be sealed with an adhesive sticker to ensure protection against tampering (observe national regulations).

Maintenance

The add-on module is maintenance-free.

Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries at designated collection points.

Warranty

User-related technical data are only guaranteed in connection with the products listed in this Data Sheet.

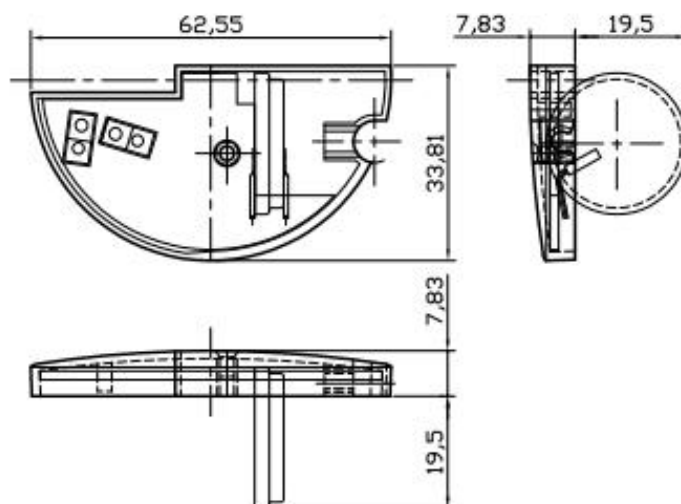
If the add-on module is used in connection with 3rd-party devices not explicitly mentioned, correct functioning must be guaranteed by the user. In such cases, Siemens does not provide any field or warranty services.

Technical data

Napájení	Type baterie	Lithium battery CR AA (nelze vyměnit)		
	Napětí baterie	3 V		
	Životnost baterie s napájením ze sběrnice M-bus	≥ 12 let s rezervou		
	Životnost baterie bez napájení ze sběrnice M-bus	≤ 2 roky		
M-bus	Rozhraní M-bus slave	As per EN 13757-2/-3		
	Klidový proud	≤1.5 mA		
	Standardní odběr	1.5 mA		
	Max.délka přichozího telegramu	0.17 s při 2'400 baud 1.3 s při 300 baud		
	Max. telegram length sending	0.7 s at 2'400 baud 5.6 s at 300 baud		
	Adresace	Primární nebo sekundární		
	Přenosová rychlost	300 nebo 2'400 Baud		
	Polarita	Záměnná		
	Galvanické oddělení	V modulu rozhraní		
	Délka kabelu	2.0 m		
	Průřez připojovacího kabelu	2x 0.25 mm ²		
	Třída ochrany	III		
	Krytí	IP65		
	Okolní podmínky		Provoz	Transport
		EN 60721-3-3	EN 60721-3-2	EN 60721-3-1
Klimatické podmínky		Třída A		
Teplota		5...55 °C	-20...60 °C	-20...60 °C
Vlhkost		<93% r.v. při 25 °C (nekondenzující)		
Normy a standardy	Mechanické podmínky	Třída M2		
	EU Conformity (CE)	CE1T5303xx ^{*)}		
Environmental compatibility	The product environmental declaration CE1E5303en contains data about environmentally friendly product design and evaluation (RoHS conformity, substances used, packaging, environmental benefits, disposal)	CE1E5303en ^{*)}		
Pouzdro	Materiál	Polylac PA 747		
	Barva	RAL 9005 (černá)		
Hmotnost	Kompletní balení modulu včetně příslušenství	62 g		

*) The documents can be downloaded from <http://siemens.com/bt/download>.

Rozměry



Rozměry v mm