



## Overview

- Wireless M-Bus concentrator (868 / 433 MHz). S, T, R2, C. OMS (Open metering system) modes supported.
- Data transmission to cloud through Modbus/ MQTT
- Datalogger with timestamp of records (RTC, Real Time Clock).
- Ethernet, USB, RS232, RS485, GSM/GPRS/3G, M-Bus communication.
- FTP Client capability, being able to send data in a file to a remote FTP server
- 8GB microSD card included
- Fully-configurable alarm reporting via SMS, Email and MQTT
- Galvanic isolation between power supply and interfaces.
- Protocols supported: M-Bus, Modbus RTU, Modbus TCP/IP, WM-Bus, FTP, MQTT.

## Characteristics

### General

Power supply: 9 – 36 Vcc / 12 – 50Vcc  
 Overvoltage protection: >1000V (max. 5 sec)  
 Consumption: <10 VA

### Specifications

CPU: ARM7 (55MHz)  
 GSM/GPRS: 3 bands 900/1800/1900 MHz  
 UMTS/HSPA+: 900/2100MHz  
 Flash: 8 MB, up to 5 years storage.  
 SD card included 8GB

### Interfaces

RS232: Up to 15m distance, speed up to 57600 bps  
 RS485: Up to 1.2 km distance, speed up to 57600 bps  
 M-Bus: Up to 8 devices  
 WM-Bus: Up to 50 devices.  
 USB: Type B, ver. 2.0  
 Ethernet: RJ45 Twisted pair 10/100 Mb, up to 100m

### External devices power supply

3.7 /5/6/8/10 Vcc max. 20mA

### Protocols

Modbus RTU, Modbus TCP/IP, M-Bus, WM-Bus, FTP, MQTT

### LED Indication

Power supply  
 Read/write of each port  
 WM-Bus connection status  
 GSM/GPRS/3G connection status

### Working conditions

Working temperature: -25 .. +60°C  
 Storage temperature: -40 .. +60°C  
 Humidity range: 5 – 95%, w/o condensation

### Regulatory approvals

EN 55022:2000+A1+AC:2002+A2:2003  
 EN 55024:2000+A1:2003+A2:2003  
 EN 61000-4-5:2002+A1:2003  
 EN 61000-4-6:2002+A1:2003  
 EN 61000-4-2+A1+A2:2002  
 EN 61000-4-3+A1:2004  
 EN 61000-4-4:2005



### Physical characteristics

Dimensions: 147x128x50 mm  
 Weight: 275 g  
 Material: PC/ABS  
 Protection type: IP20

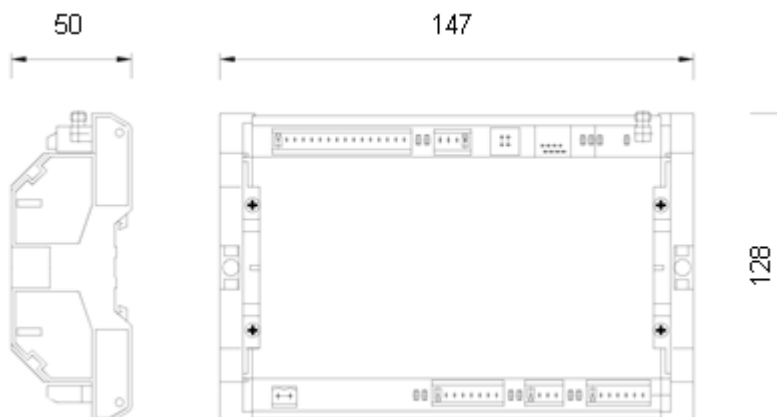
### Mounting

DIN rail

### Other features

Made in EU

Dimensions (mm)



Ordering code

Model	Interface	Interface	Interface	Interface	WM-Bus	Ethernet	SD card	Power supply
<b>702 . 044 .</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D .</b>	<b>E .</b>	<b>F .</b>	<b>G .</b>	<b>H</b>

- 0 – None
- 1 – GPRS
- 2 – RS232
- 3 – UMTS/HSPA+(900/2100MHz)
- 0 – None
- 1 – RS485
- 2 – RS232
- 4 – M-Bus
- 0 – None
- 1 – RS485
- 2 – RS232
- 4 – M-Bus
- 0 – None
- 1 – RS485
- 2 – RS232
- 0 – None
- 1 – Wireless M-Bus (868 MHz)
- 2 – Wireless M-Bus (433 MHz)
- 0 – None
- 1 – Ethernet
- 0 – None
- 1 – microSD card slot + 8GB card
- 0 – None
- 1 – Power supply for external devices

Example: **702.044.10104.1.1.0** GSM/GPRS modem, WM-Bus (868MHz) port, RS485 port, Ethernet port and microSD card

The information contained in this datasheet is subject to change without notice. Make sure you are using the latest version.

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