

# MX-9 Wireless M-Bus Data Logger 433MHz/868MHz

#### INTERFACES

**RS232** 

**RS485** 

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DATA LOGGER MX-9

M-Bus Modbus OMS ( €

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VILTRUS

M-Bus

Wireless M-Bus

Data/Req

**Current Loop** 

**Ethernet** 

**GSM/GPRS** 

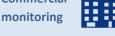
**USB** 

## **Application**

**Industrial** monitoring



**Commercial** 



Residential monitoring



Water/Heat metering



**Electricity** metering



**Gas metering** 



**Sensors** monitoring

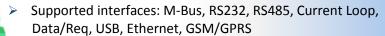


**Controllers** 



#### **FEATURES**

Reading data from meters (heat, water, gas, electricity...), sensors and controllers



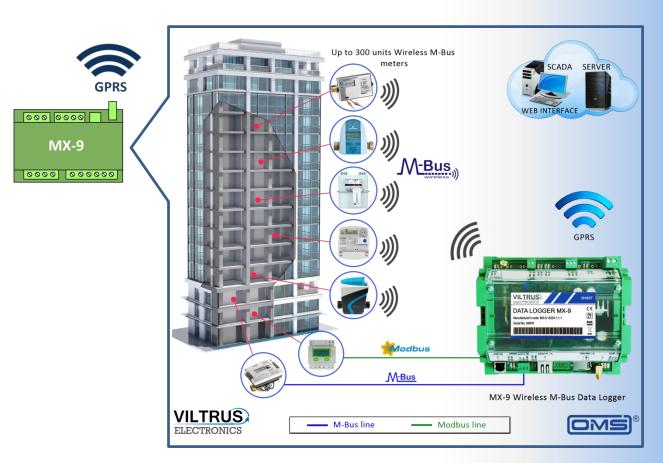
Wireless M-Bus supports:

- ✓ S, T, R, C modes (433MHz/868MHz)
- ✓ OMS (Open metering system)
- ✓ up to 300 Wireless M-Bus devices

Remote communication over GSM/GPRS or Ethernet (RJ45)

- Galvanically isolated interfaces and power supply
- Power for external devices: 3,7; 5; 6; 8 or 10 VDC (20mA)
- Memory expansion: up to 8 GB using micro SD card

MX-9 data logger is dedicated for collecting the data via Wireless M-Bus and real time logging, analyzing of data. Using GPRS/GSM or Ethernet, logger sends data to remote users / server. MX-9 can also communicate with other controllers and sensors. Device has wide range of optional interfaces and protocols and can read any kind of meters, controllers and sensors equipped with standard protocols. Perfect for telemetry/monitoring, control and smart metering.



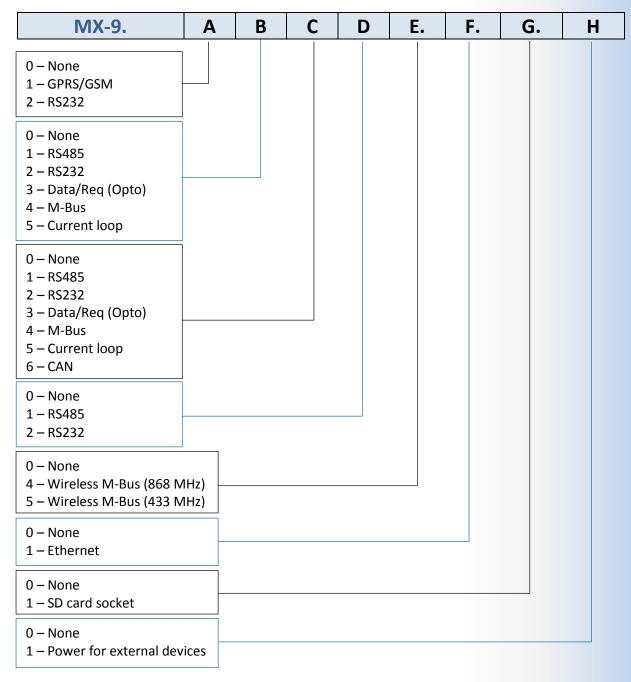
#### TECHNICAL SPECIFICATIONS

Other features
Real time clock
M-Bus auto setup
Warranty period

2 years

TECHNICAL SPECIFICATIONS	
Description	MX-9 data logger
CPU	ARM7
Flash	archive storage up to 8 MB, independent data storage without power about 5 years
External memory	up to 8 GB micro SD card
Interfaces	
RS232 (4 ports)	distance up to 15 m, speed up to 19,2 Kbit/s
RS485 (3 ports)	distance up to 1,2 km, max 32 transivers, speed up to 19,2 Kbits/s
M-Bus (2 ports)	up to 16 M-Bus devices (up to 8 M-Bus devices for each M-Bus port)
Wireless M-Bus (1 port)	up to 300 Wireless M-Bus ( T, S, R, C modes, 433MHz/868MHz) devices
Data/Req (2 ports)	(KAMSTRUP) data transfer interface
Current Loop (2 ports)	25-27V, 14-20mA, up to 6 km, speed up to 19,2 Kbit/s
GSM/GPRS	4 band 850/900/1800/1900 MHz
Ethernet	10/100 Mbps, RJ45, distance up to 100 m
USB	ver. 2,0, type B
Protocols	
Modbus RTU, Modbus TCP/I	P, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, IEC60870-5-104:2000, DynDNS, FTP
server, FTP client, DNS client	
General	
Power supply	9-36 VDC
Over-voltage protection	>1000V
Capacity	300mA max
Power for external devices	3,7/5/6/8/10 V (<20mA)
Interface galvanic isolation	500V
Physical characteristics	
Dimensions	147x128x50 mm
Weight	400 g
Mounting type	on DIN rail
Protection type	IP20
Climate conditions	
Operating temperature	-25 to +60°C
Storage temperature	-40 to +60°C
Humidity range	5 – 95%, non-condensing
Programing and updating	
Remote	GSM/GPRS or Ethernet (RJ45)
Locally	RS232, RS485 or USB
LED indication	
Power	
Serial ports read/write for ea	ach nort
GSM/GPRS modem status	
Ethernet status	
Luiernet Status	

### **ORDERING CODE**



Example: MX-9.1000.4.0.1.0 (GPRS, Wireless M-Bus (868 MHz), Micro SD card)

