VILTRUS ELECTRONICS

MX-1 *GSM/GPRS M-Bus, Modbus Data Logger*

INTERFACES

- **M-Bus**
- **RS485**
- **RS232**
- **GSM/GPRS**
- **USB**

M-Bus Modbus CE

FEATURES

- ➢ Reading data from meters (heat, water, gas, electricity...)
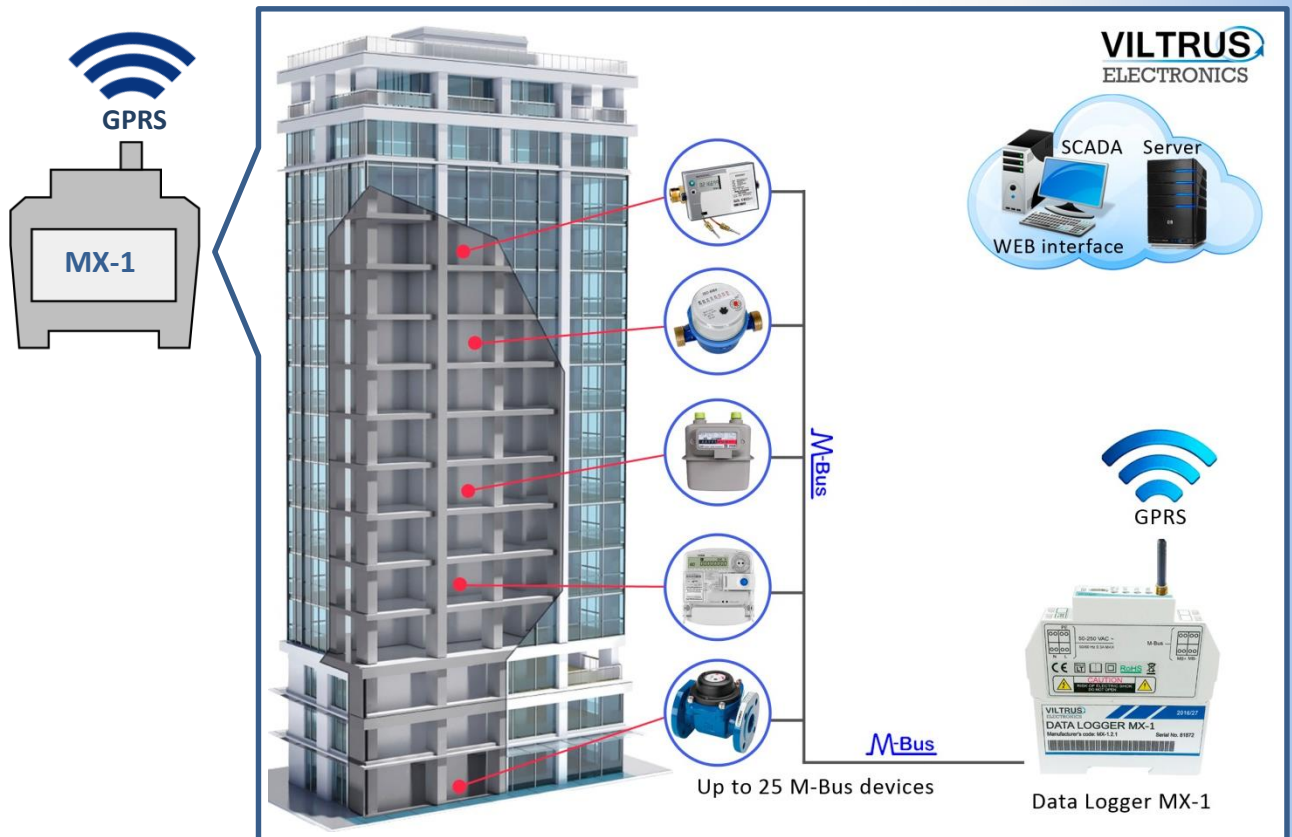- ➢ Up to 25 any M-Bus devices connection possibility
- ➢ Supported interfaces: M-Bus, RS485, RS232, GSM/GPRS, USB
- ➢ Remote communication and updates through GSM/GPRS
- ➢ Memory expansion: up to 8 GB using micro SD card
- ➢ Galvanically isolated interfaces and power supply
- ➢ Power supply: 90-250VAC (50-60Hz), 100-400VDC
- ➢ Mounting type: on DIN rail

MX-1 data logger is designed for data reading from meters (electricity, heat, water, gas and others) with M-Bus interface (up to 25 any M-Bus devices) or Modbus interface and storing/exchanging data between device and client's software through GSM/GPRS.

Application

- **Industrial monitoring**
- **Commercial monitoring**
- **Residential monitoring**
- **Water/Heat metering**
- **Electricity metering**
- **Gas metering**

Up to 25 M-Bus devices

Data Logger MX-1

TECHNICAL SPECIFICATIONS

Description	MX-1 data logger
CPU	ARM Cortex M4
Flash	archive storage up to 8 MB, data storage without power about 5 years
External memory	up to 8 GB micro SD card
Interfaces	
GSM/GPRS	4 band 850/900/1800/1900 MHz
M-Bus	up to 25 M-Bus devices
RS232	up to 15 m, speed up to 19,2 Kbits/s
RS485	up to 1,2 km, max 32 transceivers, speed up to 19,2 Kbits/s
USB	mini USB type B, ver. 2,0
Protocols	
Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, MQTT	
General	
Power supply AC	90-250V ~ 50/60Hz
Power supply DC	100-400V
Over-voltage protection	>1000V
Power consumption	< 9VA
Physical characteristics	
Dimensions	18x85x97 mm
Weight	105 g
Mounting type	on DIN rail
Protection type	IP20
Climate conditions	
Operating temperature	-25 to +60ºC
Storage temperature	-40 to +60ºC
Humidity range	5 – 95%, non-condensing
LED indication	
Power	
M-Bus interface read/write and short circuit	
GSM/GPRS modem status	
Other features	
Real time clock	+
Warranty period	2 years

ORDERING CODE

MX-1.	A.	B.	C
	1 – RS485 2 – RS232 4 – M-Bus	0 – None 1 – Micro SD card slot	0 – None 1 – Internal backup battery

Example: **MX-1.**4.1.0 (M-Bus, micro SD card slot)

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