

INTERFACES

M-Bus

RS485

RS232

GSM/GPRS

USB



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: 50-250VAC (50-60Hz)
- 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

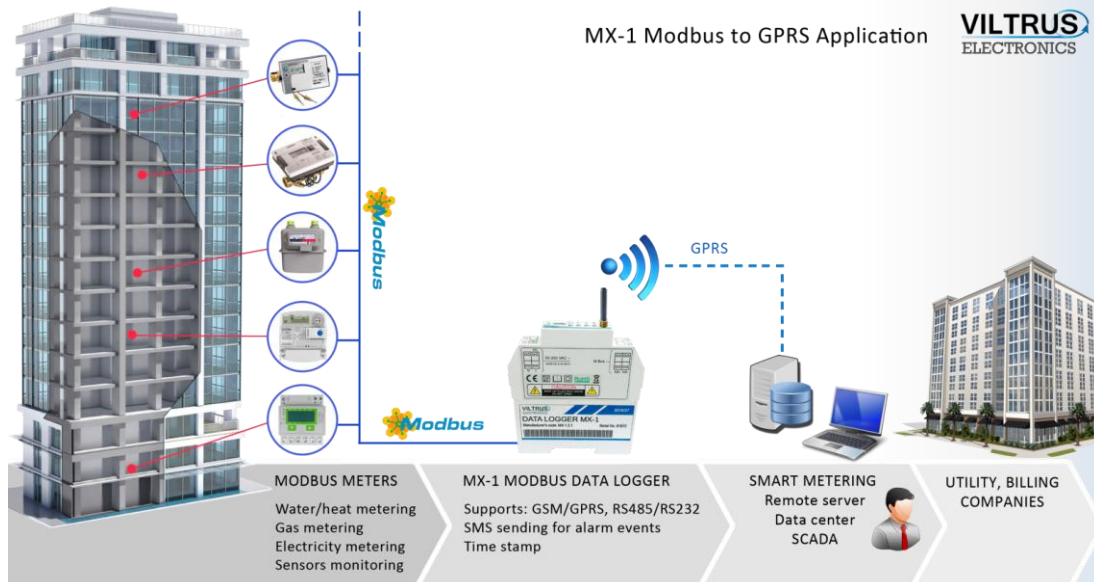
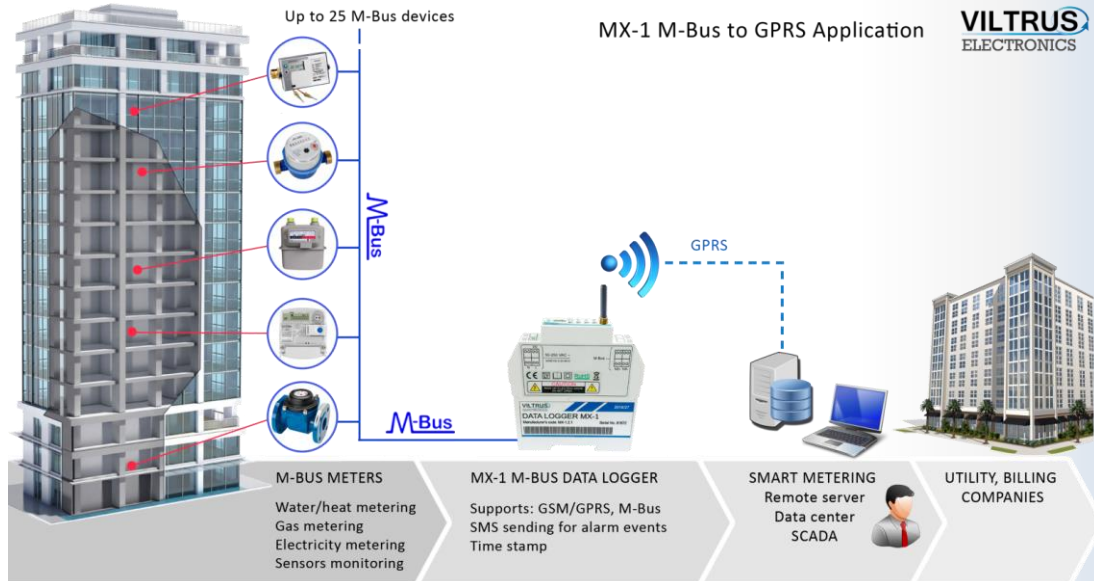
Commercial monitoring

Residential monitoring

Water/Heat metering

Electricity metering

Gas metering



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 38400 Bit/s
RS485	up to 1,2 km, max 32 transceivers, speed up to 38400 Bit/s
USB	mini USB type B, ver. 2,0
Protocols	
Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNMP, MQTT	
General	
Power supply AC	50-250V ~ 50/60Hz
Capacity	300mA MAX
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 +60°C
Storage temperature	-40 to +60°C
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

Order No.	Description
MX-1.4.1.0	M-Bus + micro SD card slot + USB
MX-1.4.1.1	M-Bus + micro SD card slot + Internal backup battery + USB
MX-1.1.1.0	Modbus (RS485) + micro SD card slot + USB
MX-1.1.1.1	Modbus (RS485) + micro SD card slot + Internal backup battery + USB
MX-1.2.1.0	Modbus (RS232) + micro SD card slot + USB
MX-1.2.1.1	Modbus (RS232) + micro SD card slot + Internal backup battery + USB