

INTERFACES

RS485

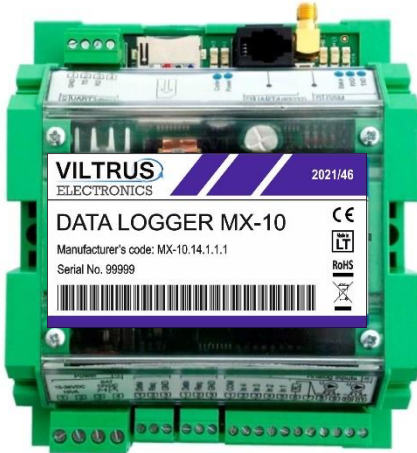
M-Bus

2G

4G

Ethernet

USB



FEATURES

- Reading data from carrier meters and sensors (heat, water, gas, electricity...)
- Possibility to store accounting and measuring data in the device
- Ability to send data to FTP and MQTT servers
- Possibility to choose interfaces: Rs485, M-Bus, 2G/4G, USB, Ethernet
- An initial analysis of data could be performed
- Remote communication and updates through GSM/GPRS, LTE, Ethernet.



MX-10 data logger is dedicated for real time logging and analyzing of data. Using 2G/4G network, logger sends data to remote users / servers. Device has wide range of optional interfaces, protocols and can read any kind of meters, controllers and sensors equipped with standard protocols. MX-10 Data Logger can also act as a Modbus TCP/IP Converter, as it connects the capabilities of a data logger and M-Bus to Modbus Converter in one product. Perfectly designed for monitoring and smart metering systems.


Application


Water/Heat metering 

Electricity metering 

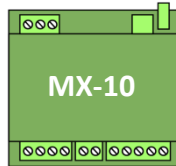
Gas metering 

Heat substation metering 

Sensors monitoring 

Wind power plant monitoring 

Solar power plant monitoring 



TECHNICAL SPECIFICATIONS

Description	MX-10 data logger
CPU	Cortex-M4
Flash	archive storage 1-8 MB, battery backup, valid up to 5 years
Interfaces	
2G	Quad-Band 850/900/1800/1900 MHz
4G	TDD-LTE B38/B40/B41 FDD-LTE B1/B3/B5/B7/B8/B20 WCDMA/HSDPA/HSPA+ B1/B5/B8 GSM/GPRS/EDGE 900/1800 MHz
RS485	up to 1.2 km, max 32 transivers, speed up to 19.2 Kbits/s
M-Bus	up to 250 devices (375mA), short circuit protection
Ethernet	10/100 Mb twisted pair, up to 100m
USB	ver. 2.0, type A
Protocols	
Modbus RTU, Modbus TCP/IP, IP, FTP, MQTT, ICMP, UDP, TCP, DHCP, PPP, ARP, SNMP, IEC60870-5-104:2000	
General	
Power supply	20-36V DC (25W)
Over-voltage protection	>1000V
Power consumption	<10VA
Interface galvanic isolation	500V
Physical characteristics	
Dimensions	107x128x50 mm
Weight	300 g
Case fixing type	DIN35
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	
Serial port read/write for each port	
Other features	
Real time clock	+
M-Bus auto setup	+
Programming and updating	Remotely: GSM/GPRS, LTE, Ethernet Locally: RS485, USB
Warranty period	2 years

Socket No.	RS485	MBUS	Ethernet	GSM (GPRS)	Micro SD card
A	○				
B		○			
C			○		
D				○	
E					○

○-optional one interface per socket; *-galvanically isolated; (+○)-you can choose this interface additionally

ORDERING CODE

0 - none 1 - RS485	0 - none 4 - Mbus	0 - none 1 - Ethernet	0 - none 1 - 2G (GPRS) 6 - 4G (LTE)	0 - none 1 - uSD card socket
702.055.A	B	C	D	E

Example: **MX-10.1.4.6.1** (RS485, M-Bus, Ethernet, 4G, SD card socket)