

## INTERFACES

RS485

M-Bus

I<sup>2</sup>C

2G

3G

4G

NB-IoT

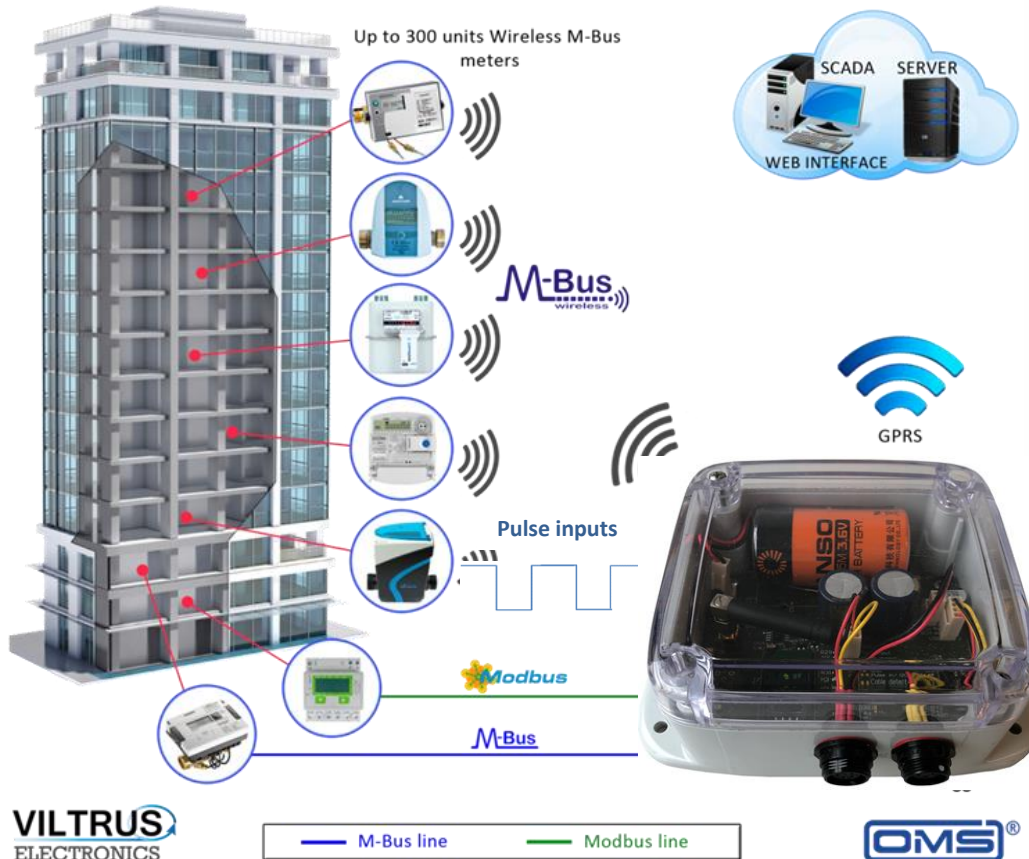
USB

## FEATURES



- Calculate the pulses of the accounting devices;
- Read values of meters or sensors (pressure, temperature) through a serial interface;
- Store meters data in memory at selected intervals;
- Track data values and transmit deviation information in the event of deviations from specified thresholds;
- Transmits all existing and collected data to a server on a 2G, 3G, 4G or NB-IoT connection at a specified frequency;
- Perform all these functions without external power.

**MX-8** Data Logger records pulse output signals from various accounting devices: meters, sensors (pressure, temperature), through a serial interface. It records the number of pulses seen during each logging interval and transmits all existing and collected data to a server through 2G, 3G, 4G or NB-IoT connection, on a specified frequency. This data logger is battery powered, suitable for even more applications.



## TECHNICAL SPECIFICATIONS

Pulse inputs	
Amount	1 or 2
Input type	“dry contact”
Minimum pulse period	50 ms
Minimum pulse duration	20 ms
Detected disconnected input	Yes
Serial communication interfaces	
Amount	1
Interface type:	M-Bus (up to 10 M-Bus devices) RS485 I <sup>2</sup> C
Quantity of metering devices connected to the M-bus interface	2
Data speed over M-bus or RS485 interfaces	300 – 9600 M-Bus 300 – 115200 Modbus
Periodicity of data reading via M-bus interface	4 band 850/900/1800/1900 MHz
Frequency of reading data via RS485 interface	15min – 24 hours
Remote data transmission	
Available type of transmission type	2G, 3G, 4G or NB-IoT
Frequency of data transmission	At least once daily or in the event of a deviation
Data transmitted	<ul style="list-style-type: none"> <li>- Cumulative periodic data for at least the last 3 months. If accumulation is performed every 1 hour. Only data that was not transmitted during the previous connection is transmitted</li> <li>- Alerts data. Transmissions shall be promptly recorded when deviation from the boundaries of the task or external influences are recorded</li> <li>- Identification: Number, version, user-defined identification, time, battery parameters</li> </ul>
Data Communication Protocol	HTTP, FTP
Communication antenna	Internal or external
SIM Card	SIM (25x15). Insert / replace socket without tools. Changing is done by removing the storage cap
Settings	All settings (PIN, APN, server URL, etc.) are done locally or remotely
Configuration	
Type	USB 2.0
Purpose	For local data scanning, configuration and diagnostics
Connecting	Through an external connection without opening the inverter housing
Power supply	
Type	Internal 14Ah battery, plugs in and replaces without the need for tools
Duration of operation (converter operation)	At least 4 years under conditions: Data transfer to server no more than once a day, M-bus scan no more than once a day
Battery Status Monitoring	Yes. Energy, voltage, temperature are measured
Physical characteristics	
Fixing type	mount on the wall
Protection type	IP68 or IP65
Dimensions	IP68 class 146 mm x 114 mm x 62 mm IP68 class 114 mm x 114 mm x 62 mm IP65 class 120 mm x 120 mm x 60 mm
Connection type	IP68 class: per IP68 class connectors

IP65 class: per IP65 class connectors

### Working conditions

Operating temperature -25 °C... +60°C

Storage temperature - 40 °C ...+60°C

### Real time clock

Error without synchronization ±5s per day

Synchronization From GSM network and / or server during data transmission

### Other features

Local Activation External magnetic field or USB

## ORDERING CODE 702.053.AB.C.D.E.F

### A - Communication

0	None
1	2G
3	3G
4	4G
5	NB-IoT

### B – Antenna type

0	None
1	Internal
2	External

### C – Pulse inputs

0	None
1	1
2	2

### D – Serial Interface

0	None
1	RS485
4	M-bus
5	I <sup>2</sup> C

### E – Local Configuration Interface

0	None
1	USB 2.0
2	NFC (in the future)

### F – Protection class

1	IP68
2	IP65