MIVO CONNECT

M-BUS DATA GATEWAY LTE-M

MIVO Connect Data Gateway collects data from up to 2600 meters or sensors. The data is collected using internal or external interfaces which include M-Bus, M-Bus over IP or Modbus RTU/TCP.

The collected data can be communicated to one or more user defined services, these include cloud-based services and local building management systems.

To prevent data loss in case of network or power failures the device contains local storage. The device also features router functionality and a user friendly web interface to simplify the administration and troubleshooting process.

The built in expansion bus provides an easily expandable and future proof solution.

Modern web interface for easy installation, configuration, and troubleshooting
In the web interface you can read data, check connections, and retrieve historical data.

Flexible scheduled reports for one or more external systems
Each scheduled export is entirely individual and can be configured with different meters, delivery formats, data resolution and reporting intervals. The intelligent data collection engine optimizes data in the most efficient way.

Built-in M-Bus decoding for easy integration
MIVO Connect Data Gateway has a complete M-Bus decoder that has been tested for many years in operation with most meter manufacturers on the market. When delivering data to higher-level systems, meter readings can be normalized to the desired unit and scaling, simplifying integration.

Delivery of meter readings via standardized transport protocols
The device supports the most common transport protocols: HTTP(S), FTP(S), MQTT, and has predefined report formats and is regularly expanded with new formats.



Easy integration with local control systems
The Device can integrate with DUCs (Data Utilization Center) via M-Bus over IP, Modbus RTU, and Modbus TCP. The built-in web interface makes it easy to configure and generate Modbus mappings and associated Excel documentation.

Internal storage safeguards against data loss
The internal storage protects against data loss in case of internet connection issues or potential data loss in higherlevel systems.

Expandable, upgradeable and future-proof
MIVO Connect Data Gateway features a smart modular system, allowing the device to be expanded with new physical interfaces or software functions as future needs arise.

MIVO Technology AB | Industrigatan 4B | 112 46 Stockholm | Sweden | mivo.se

TECHNICAL SPECIFICATION

Mechanics

Dimensions (w x h x d)	70 x 85 x 57 mm (4 DIN-modules)
Montage	35mm DIN
Weight	200g
Protection class	IP20

Environmental

Storage temperature	-25 to +55 C
Operating temperature	-25 to +55 C
Operating humidity	5 till 90% Non-Condensing
Max. operating altitude	2000m
Pollution degree	2
Operating environment	Indoors

Power

Input voltage	230 VAC (±10%), 50Hz
Power consumption (max)	<5W (20W)
Overvoltage category	CAT 3 (OVC III)
Connection terminals	Spring loaded terminals 0.75 - 1.5mm²

Ethernet - 2st (WAN / LAN)

Connection	RJ45
Speed	10/100MBit
Router functionality	Yes

LTE *

Typ	LTE Cat-M
SIM	Mini-SIM (2FF)
Connection	SMA

M-Bus Master

Standard	EN 13757
Speed	300/2400/9600 Baud
Nominal voltage	30V
Maximum output current	85mA
Unit loads	32**
Maximum cable length	1000m
Electrical isolation	1500V

RS485 (Modbus RTU)

Type	Isolated
Speed	9600 to 115200 Baud
Termination	None
Biasing	Weak (1kOhm)
Maximum number of nodes	256
Connection	Spring Loaded Terminals (0.75 - 1.5 mm²)

Other Connections

Expansion bus	MIVO-Link
USB Connection Front	USB-C
USB Connection Bottom	USB-A

Other

Maximum Number of Sensors**	2600
Collecting Period	1min - 24h

Storage Examples **
- 100 sensors, hourly values -> 20 years
- 1000 sensors, hourly values -> 2 years
- 2000 sensors, hourly values -> 1 year

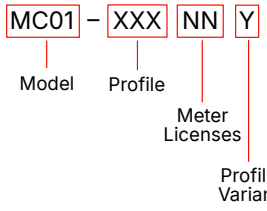
Approvals

EMC	EN 61000-6-2, EN 61000-6-3
RED	EN 301489-1, EN 301489-7
Safety	EN 62368-1 (OVC III)
Environment	RoHS, WEEE

* Optional

** Can be increased with expansion modules.

Ordering info



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