MIVO CONNECT

M-BUS EXTENDER 250

The MIVO Connect M-Bus Extender 250 is an add-on module for the MIVO Connect IoT Gateway and expands the system's M-Bus capacity with an additional 256 M-Bus loads. The system is easily expanded with the included expansion cable and can be forwarded with up to 10 expansion units. The module indicates errors and measures nominal bus voltage and current for easier diagnostics both visually and via the MIVO Connect Smart IoT Gateway.



Technical Specification

Mechanics

IP20

Environmental

-25 till +55 C -25 to +55 C Operating temperature

Max. operating altitude Pollution degree Operating environment

Power

Via expansionsport

CAT 3 (OVC III)

Spring loaded terminals 0.75 - 1.5mm2

M-Bus master

EN 13757 Standard

300 / 2400 / 9600 Baud Speed

Unit loads Maximum cable length 5km Electrical isolation

Other

Error codes

Approvals

EN 61000-6-2, EN 61000-6-3 EN 62368-1 (OVC III)

RoHS, WEEE



MIVO Connect

Smart IoT Gateway

MIVO Connect is a smart data gateway for data collection from up to 2000 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. On top of this 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 futureproof solution.



Technical Specification

Machanica

Standard

* Optional

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Dimentions (w $x h x d$)	70 x 85 x 57 mm (4 DIN-modules)	Туре	LTE Cat-M	
Weight	200g	SIM	Mini-SIM (2FF)	
Protection class	IP20	Antenna connector	SMA	

Weight	200g	SIM	Mini-SIM (2FF)	
Protection class	IP20	Antenna connector	SMA	
Environmental		RS485 (Modbus RTU)		
Storage temperature	-25 to +55 C	Туре	Non-isolated	

-25 to +55 C 9600 to 115200 baud Operating temperature Speed Operating humidity Termination 5 to 90% non-condensing None Weak (1kOhm) Max. operating altitude 2000m Biasing Maximum number of nodes 10** 2 Pollution degree

Operating environment Maximum cable length Indoors Connection Spring loaded terminals 0.75 - 1.5mm2

Power Other connections 230 VAC (±10%), 50Hz Input voltage MIVO-Link Power consumption (max) <5W (20 W) Expansion bus

Overvoltage category CAT 3 (OVC III) USB connection front USB-C Connection terminals Spring loaded terminals 0.75 - 1.5mm2 USB connection bottom USB-A

Ethernet - WAN and LAN

Connection	RJ45	Maximum number of sen	Maximum number of sensors 2000	
Speed	10/100MBit	Storage examples**	100 sensors, hourly values -> 20 years	
Router functionality	Yes		1000 sensors, hourly values -> 2 years	
			2000 sensors, hourly values -> 1 year	

Other

Real-time clock backup time 48 h

M-Bus master Real-time clock drift <2 s/day

300 / 2400 Baud Configuration interface Web interface using USB-C or LAN Speed

Nominal voltage 30V Maximum output current 85mA 32** Unit loads Maximum cable length 1km Electrical isolation 1500V

EN 13757

**Can be increased with expansion modules.

Approvals

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

