



Product Overview

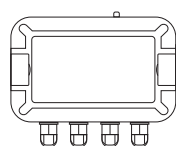
Metbox Pro is an IoT gateway designed for automatic reading and transmission of meter data using Wireless M-Bus, M-Bus, Modbus, Serial, RS232, and 4–20 mA protocols. Data is sent to the Metbox platform or an alternative data management platform.

The device provides secure and reliable data collection from water, heat and electricity meters, as well as reading and control of heating controllers. Data is securely transmitted to the intended platform via an LTE (4G) mobile connection

Key Features

- Long-range Wireless M-Bus communication at 868 MHz
- LTE Cat-1 mobile connection for reliable data transmission to data processing systems
- Compliant with OMS 3.x and 4.x standards
- Quick installation via a local Wi-Fi access point
- Built-in LTE antenna with SMA connector for external antenna attachment (optional)
- Built-in wM-Bus antenna with SMA connector for external antenna attachment (optional)
- Low power consumption for continuous operation
- Multi-protocol data reception via wired connections
- Up to 160 M-Bus connections
- Remote firmware updates (FOTA)

Dimensions



Length:	Width:	Height:
156 mm	140 mm	42 mm

Wireless Radio

Wireless standard	Wireless M-Bus (OMS compliant)
OMS compliance	OMS 3x & 4x
Communication mode	Uni-directional
Frequency band	868 MHz (± 5 MHz)
Antenna	Internal antenna
External antenna support	SMA connector (optional external antenna)

Configuration & Device Management

Configuration interface	Web-based user interface
Local connectivity	WiFi 2.4 GHz hotspot
Device management	Local WiFi interface
Firmware updates	FOTA, Firmware Over-The-Air
Setup time	~1 minute

Connectivity

Mobile connectivity	LTE Cat-1
Ext. GSM antenna support	SMA connector (optional external antenna)
Transmission protocols	TCP/IP, HTTP, HTTPS, MQTT
SIM card type	Nano SIM
Collection protocols	wM-Bus, M-Bus, Modbus, Serial, RS232, 4-20mA
M-Bus	5 devices (standard) 100 devices (optional)

Environmental & Certifications

Ingress Protection	IP67 (fully protected against dust and temporary water immersion)
Operating Environment	Suitable for outdoor and industrial installations
Compliance	CE

Enclosure

Enclosure material	ABS plastic
Protection class	IP67
Mounting options	Wall mount, Pole mount
External dimensions	156 mm x 140 mm x 42 mm

Power

Input voltage	230 VAC
Power consumption	10 W
Surge protection	6 kV