

MiDoMet LoRa Analog



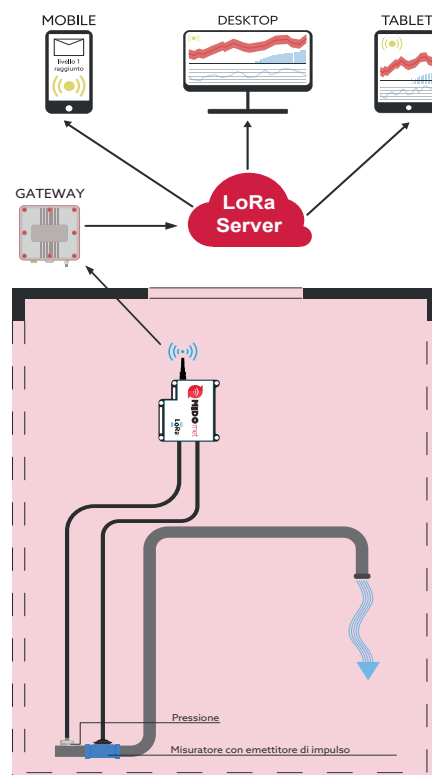
MiDoMet LoRa Analog is the extended version of MiDoMet LoRa Pulse. Beyond remote reading data from impulse meters and digital sensors it provides an **analog input** for monitoring sensors as temperature, pressure, level or quality probes.

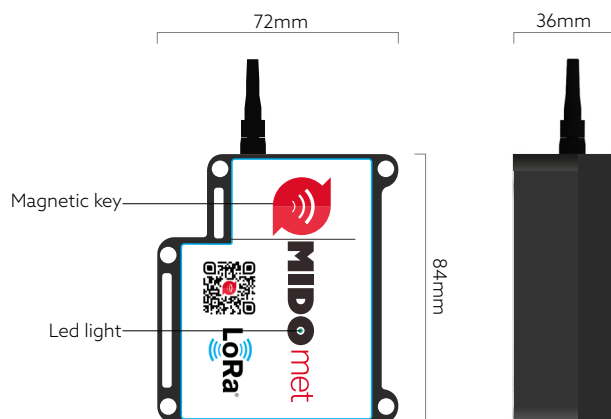
Interoperable with any LoRaWAN network, the long-range and low-power network (LPWAN) that allows the economic and simple development of Internet of Things applications.

FEATURES

- 1 digital input for meters or sensors
- 1 Analog input 4-20 mA / 0-5V
- Wireless LoRaWAN distance up to 10,000mt
- Radio module 868 Mhz
- Resistant to hostile environments with IP68 protection
- Self-powered (up to 10 years of autonomy + 5 years analog sensor)
- Dimensions: 77mm x 70mm x 33mm

USE CASES





INPUT

Input Type	1 Analog IN 4-20mA, 0-5V, 0-10V + 1 Digital IN
Application	on any relè/reed/hall effect sensor
Retrofitting (On existing systems)	Any LoRaWAN Network

ANALYSIS

Processing Unit	Arm® Cortex®-M4 32-bit
Storage Unit	Flash memory up to 256 Kbyte, 64 Kbyte of SRAM

POWER SUPPLY

Supply	Li-SOCL2 3,6V
Battery life	up to 10 years (1 transmission/hh)

DATA TRANSMISSION

Transmission module	Semtech SX1276
Antenna	Antenna EXT Quadriband with external SMA connector

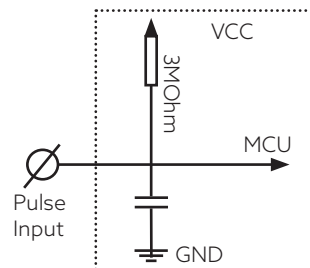
MECHANICAL CHARACTERISTICS

Mounting	screw Ø 6
Environmental conditions	-20 / 55 °C
IP Protection	IP 68

DIGITAL CONNECTIONS

WHITE (+)	Digital Input 1 (Max Freq. 20Hz - Min Freq. configurable)
GREEN (+)	Digital Input 2 (Max Freq. 20Hz - Min Freq. configurable)
BROWN (-)	GND

Detection voltage
low level = 0,9VDC



Electric Analog Connection	Power Supply +	Signal Output +	GND
3 wires 0 ~ 5-10 V	BLUE	BROWN	BLACK
2 wires ~ 4-20 mA	BLUE	BROWN	BLACK (in case of connection to active devices)

INCLUDED ACCESSORIES

MD.CAB.LIYY.4P



Cable for digital input (output) wiring 50cm Unitronic® LiYY 26AWG + IP68 4 pin gold-plated brass connector + sealing cap

MD.CAB.LIFY.4P



50cm Unitronic® LifYY 26AWG analogue input wiring cable complete with IP68 4-pin gold-plated brass connector and sealing cap

OPTIONAL ACCESSORIES

MD.ANT.EXT.2DB



External antenna with IP68 protection

MD.PRO.COAX.1M



Coaxial extension cable SMA (male) to SMA (female) RG174 length 1m

MD.JBOX.M686



IP68 compensation chamber for relative pressure or level sensor complete with breathing valve

MD.CON.12



IP68 splitter connector (1 input wire and 2 output wires) for digital inputs for wiring pulse emitters or digital outputs..

CONFIGURATION OPTIONS

VERSION	Digital Inputs	Analog Inputs	Antenna*	POWER SUPPLY		
				Battery	220V Power Supply	Solar Panel
MD.EXP.1.7.1.1	1	1	Internal	External 38Ah + HPC1520**		
MD.EXP.1.7.1.1.VA	1	1	Internal		MD.ALI.1.2.36	
MD.EXP.1.7.1.1.PS	1	1	Internal			MD.PS.4W

*External antenna option available

**Backup battery pulse capacitor