



MiDoMet LoRa Pulse is an innovative radio module, for remote reading of water, gas, light and heat meters. 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.

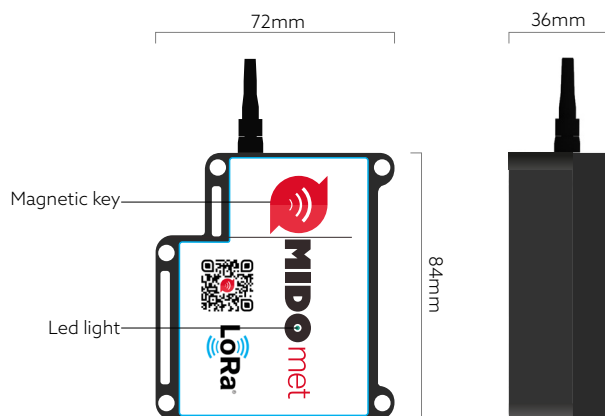
## FEATURES

- Up to 2 digital inputs for meters or sensors
- Wireless LoRa / LoRaWan
- Distance up to 10,000mt
- Radio module 433/868/916 Mhz (according to requirements)
- Resistant to hostile environments with IP68 protection
- Self-powered (up to 10 years of autonomy)
- Dimensions: 77mm x 70mm x 33mm



## USE CASES





## INPUT

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Input Type                            | 2 Digital input                      |
| Application                           | on any relè /reed/hall effect sensor |
| Retrofitting<br>(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

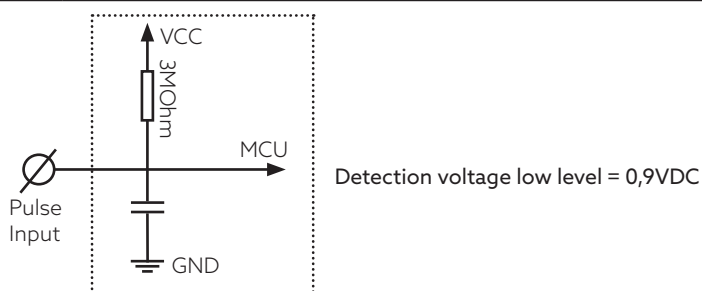
|                     |                                                    |
|---------------------|----------------------------------------------------|
| Transmission module | Semtech SX1276                                     |
| Antenna             | Antenna EXT Quadriband with external SMA connector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

## MECHANICAL CHARACTERISTICS

|                          |             |
|--------------------------|-------------|
| Mounting                 | 1 screw Ø 6 |
| Environmental conditions | -20 / 55 °C |
| IP Protection            | IP 68       |

## ELECTRIC CONNECTION

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



## 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

## 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.BATTL.36V



Additional external 38Ah battery pack.

### 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 | Antenna* | POWER SUPPLY                 |                   |             |
|-----------------|----------------|----------|------------------------------|-------------------|-------------|
|                 |                |          | Battery                      | 220V Power Supply | Solar Panel |
| MD.TRA.1.7.2    | 2              | Internal | Internal 9000mAh + HPC1520** |                   |             |
| MD.TRA.1.7.2.VA | 2              | Internal |                              | MD.ALI.1.2.36     |             |
| MD.TRA.1.7.2.PS | 2              | Internal |                              |                   | MD.PS.4W    |

\*External antenna option available

\*\*Backup battery pulse capacitor