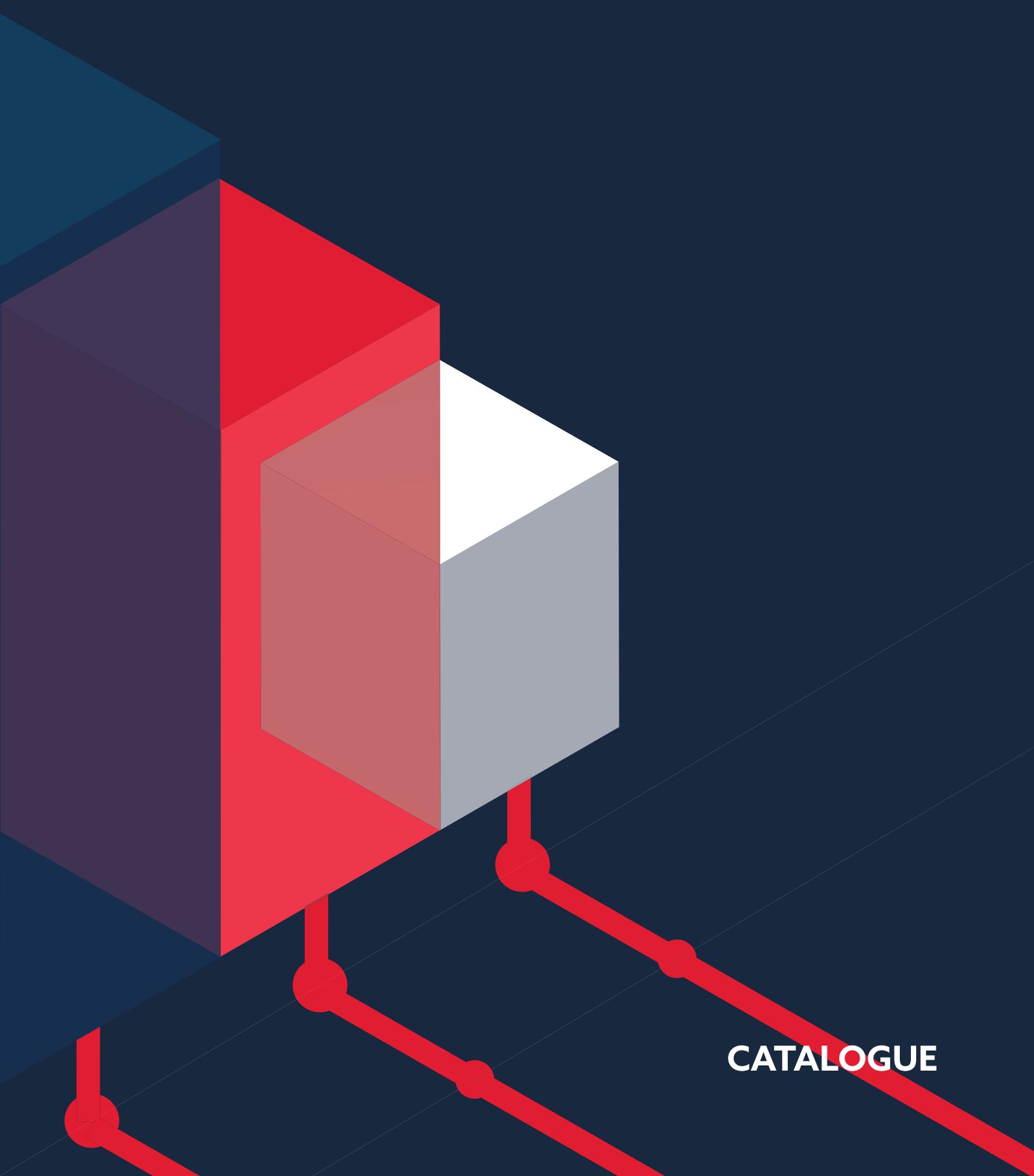




MIDO met

smart metering



CATALOGUE

Vision

Innovative solutions for a more sustainable world



mission

MiDo develops Smart Metering systems and cloud computing services for energy management and energy monitoring

MiDo is the ideal choice for remote reading and consumption monitoring

MiDoMet is a smart metering system based on electronic devices (LoRaWan, NBloT, LTE gateway/datalogger) and services in cloud computing for energy management, for monitoring water in urban or extra urban areas.

Our clients are utility companies, large users industries or apartment buildings.

MiDo products allow you to:

- keep the physical and administrative losses that represent costs and lost profits;
- respond to the growing need to equip itself with remote management systems for the supply and monitoring of consumption.

MiDo meets these needs through an **innovative** range of devices.

MiDo's devices are **open and interoperable** with any third-party or pre-existing system, **self-powered** and **easy to use**.

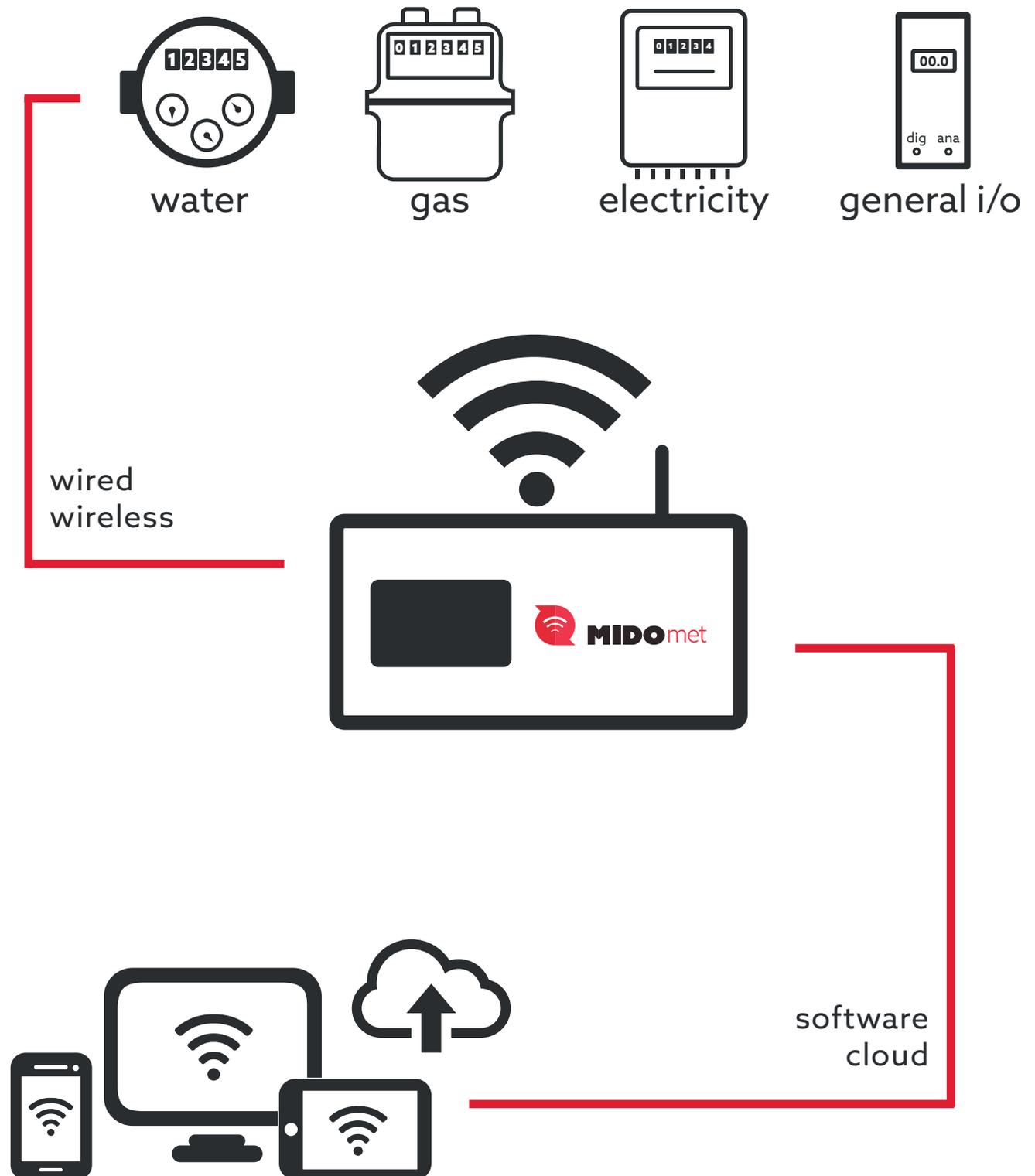
The MiDo system is completed with customized **data management platforms** based on customer needs.

Awards



Why rely on **MiDo**?

Winning features for immediate benefits.





easy to use

Our products are plug & play,
can be easily installed
without skilled personnel



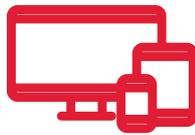
self-powered

Our devices have a long autonomy
(up to 10 years)



connectivity

Our solutions include the SIM for data transmission,
relieving the customer of additional costs



complete

Our solutions are completed with
data management software
also provided as a cloud computing service



waterproof and small

Our devices are small and waterproof



open and interoperable

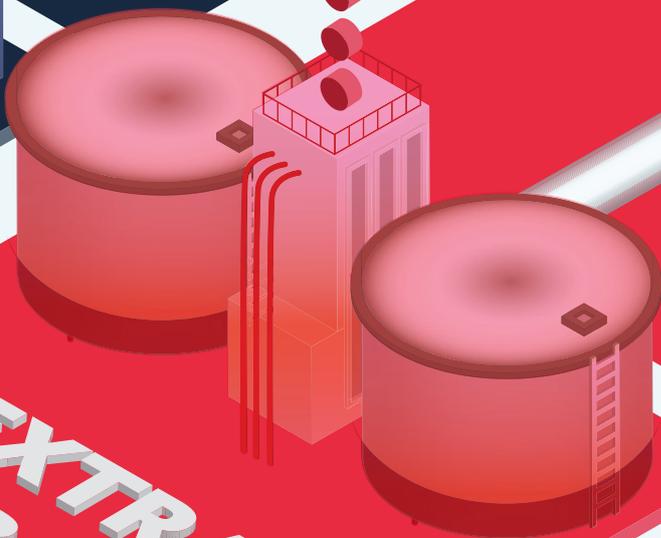
The data of our systems can be integrated with
third-party management software

CONDOMINI



AREA
URBANA

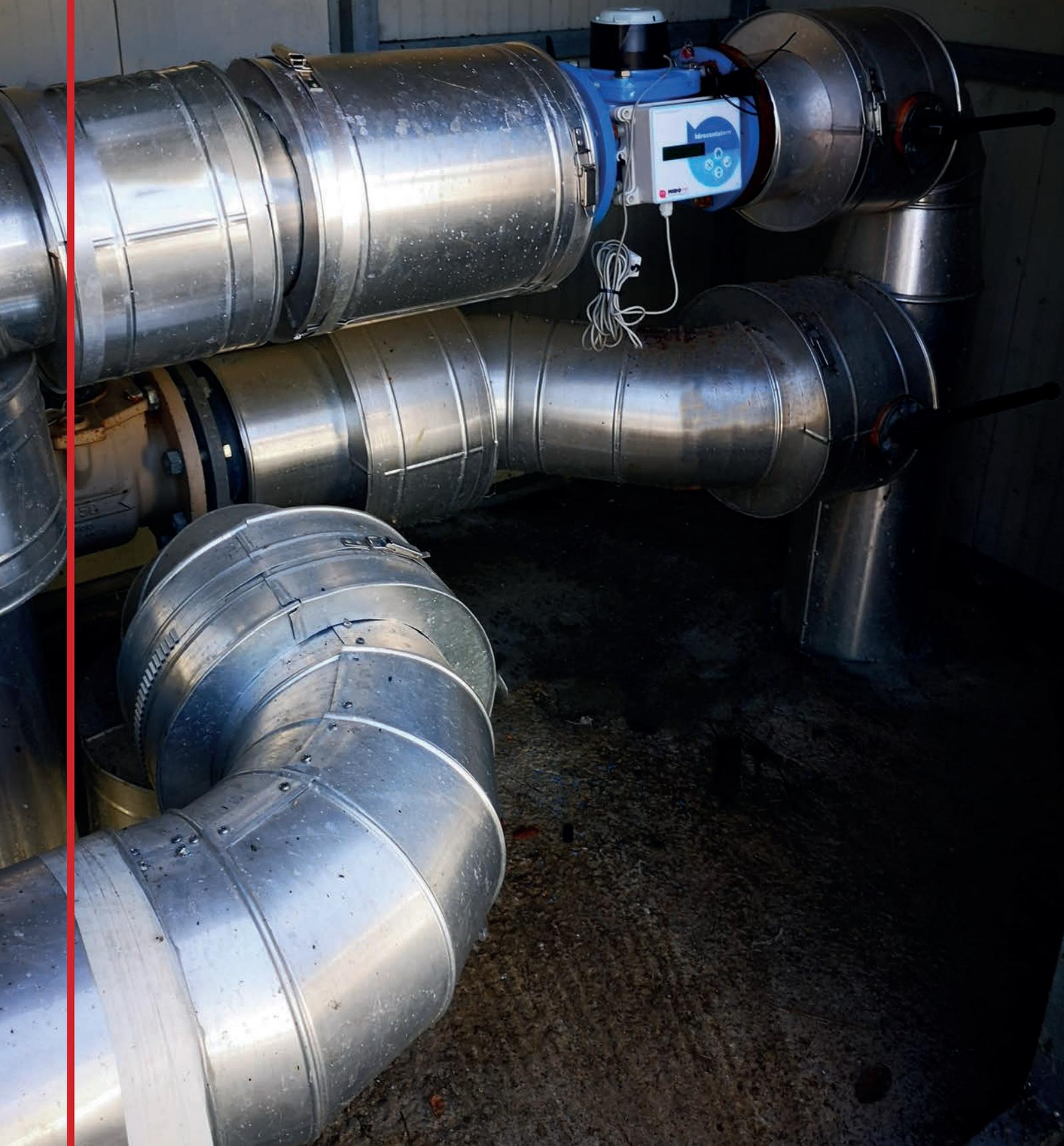




**EXTRA
URBANE**

"The acquisition of the MiDo monitoring technology has allowed the company to offer a better service to the citizens, optimize costs and intervention times in the field and obtain support for the preventive and improvement design of the network"

(Cit. our satisfied customer)



MiDoMet Wired



MiDoMet Wired system is a self-powered datalogger / GPRS gateway for collecting data from digital meters or sensors.

- Inputs: meters equipped with pulse emitters, digital sensors
- Sending data via GPRS
- Resistant to hostile and waterproof
- Self-powered (up 10 years)
- Small dimensions

TECHNICAL FEATURES

Inputs	Up to 10 digital input (dry contact, reed switch, hall effect, etc.)
Processing Unit - Storage	ARM microcontroller - 8 Mbit memory
Power supply	Li-SOCL2 3,6V / 110-240Vca 50-60Hz
Data-transmission module	Modem OEM GSM/GPRS Quad Band
IP Protection	IP 67 / IP 68
Dimensions	158mm x 100mm x 52mm

WHO IS IT FOR?

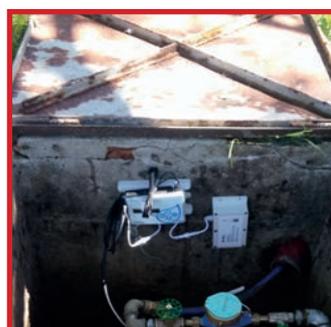
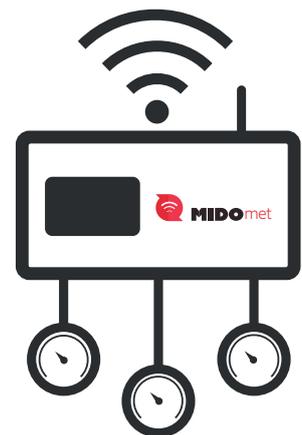
MiDoMet Wired is suitable for the remote reading of the consumptions of:

- industrial users such as hospitals, schools, factories etc ...
- utility companies, municipalities, etc.

GOALS

- Monitor consumption effectively
- Detect losses and faults in real time
- Billing on real consumption and not presumed
- Optimize the network

USE CASES



MiDoMet Master LoRa



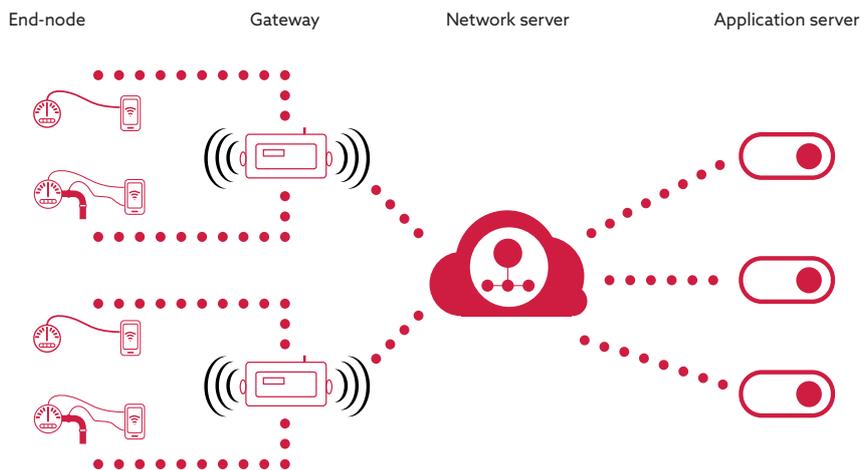
MiDoMet Master LoRa Gateway EU868 is an ideal product for IoT deployment. The hardware main board completely integrates the WIFI, 4G, GPS and PoE main supply with an integrated back-up battery. The firmware implements a fully featured LoRaWAN™ compliant network base station. The Gateway has a range of over 15Km line-of-sight and over 2Km in dense urban environments.

TECHNICAL FEATURES

- Enterprise grade network gateway with your own configuration.
- LoRaWAN™ Stack Inside and integrate the Web UI for management.
- Complete Hardware specification including LoRa concentrator, Cellular, GPS and WIFI.
- Supports Power of Ethernet (PoE) IEEE 802.3af/at-Compliant Class 4, 48V.
- Battery Backup sustains operation for about 10 hours under typical conditions.
- IP67 waterproof enclosure with cable gland.
- LoRa

WHO IS IT FOR?

MiDoMet Master Lora is suitable for the implementation of a LoRa network in urban areas.



USE CASES



MiDoMet Master Wm-Bus



MiDoMet Master system is a self-powered datalogger of data from water meters or heat distributors equipped with a compatible M-Bus wireless radio module, and a gateway for sending data via the GPRS network. The device supports distributors or modules equipped with 868Mhz radio (OPZ 433Mhz or 916Mhz).

TECHNICAL FEATURES

Inputs	32 radio WM-Bus OMS modules
Processing Unit - Storage	ARM microcontroller - 8 Mbit memory
Power supply	Li-SOCL2 3,6V / 110-240Vca 50-60Hz
Data-transmission module	Modem OEM GSM/GPRS Quad Band
IP Protection	IP 67 / IP 68
Dimensions	158mm x 100mm x 52mm

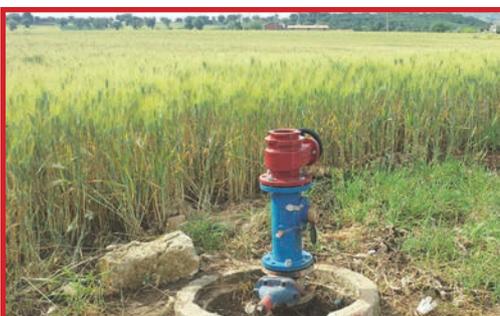
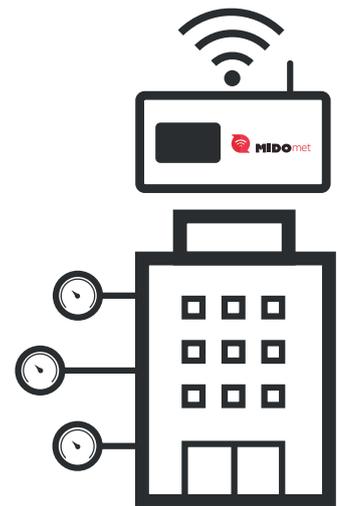
WHO IS IT FOR?

MiDoMet Master is suitable for the distribution of water and heat consumption in condominiums, in urban or agricultural areas.

GOALS

- Monitor the consumption effectively
- Calculate the water or energy balance
- Billing on real consumption and not presumed
- Detect losses in the network and in the single node

USE CASES



**“Any MiDoMet device installed
has ever had any problems
both in data acquisition
and transmission”**

(Cit. our satisfied client)



MiDoMet Pressure



Remote reading system and GPRS gateway specialized for network pressure monitoring.

- A configurable analog input
- Up to 2 digital inputs for meters or sensors
- Sending data via GPRS
- Resistant to hostile and waterproof
- Self-powered (up 5 years)
- Small size

TECHNICAL FEATURES

Input	1 analog IN 4-20mA o 0-5V/0-10V for pressure transmitters + up to 2 digital IN
Processing Unit - Storage	ARM microcontroller - 8 Mbit memory
Power supply	Li-SOCL2 3,6V Battery + battery pack sized for the sensor (up tpo 5 years of battery life) / 110-240Vca 50-60Hz
Data-transmission module	Modem OEM GSM/GPRS Quad Band
IP Protection	IP 67 - IP 68
Dimensions	158mm x 100mm x 52mm

WHO IS IT FOR?

MiDoMet Pressure is suitable for utility company, municipalities and distribution companies as an aid to the effective management of network pressures. It is a useful tool for the detection of losses, and for the realization of districtisation.

GOALS

- Optimize network pressure
- Improve service quality
- Detect losses in real time
- Alert in case of breach of guard thresholds



USE CASES





MiDoMet Special



Remote reading system and GPRS gateway with custom analogue and digital inputs.

- Up to 2 configurable analog inputs
- Up to 8 digital inputs for meters or sensors
- RS485 serial interface - ModBus
- Sending data via GPRS
- Resistant to hostile and waterproof
- Self-powered (up 5 years)
- Small size

TECHNICAL FEATURES

Input	Up to 2 IN analog 4-20mA, 0.5V, 0-10V + up to 8 digital IN - RS485 serial interface - ModBus
Processing Unit - Storage	ARM microcontroller - 8 Mbit memory
Power supply	Li-SOCL2 3,6V Battery + battery pack sized for the sensor (5 years of battery life) / 110-240Vca 50-60Hz
Data-transmission module	Modem OEM GSM/GPRS Quad Band
IP Protection	IP 67 - IP 68
Dimensions	158mm x 100mm x 52mm

WHO IS IT FOR?

MiDoMet Special is suitable for monitoring the levels in the tank, and for remoting signals from analog sensors (for example quality or ultrasound).

GOALS

- Monitor the level in the tank in areas not equipped with an electrical network
- Remotely control quality and operation parameters of the systems and alert in case of failure and malfunction



USE CASES



I L F U T U R O
DELLA RETE È **LoRa**,
È **L'INTERNET OF THINGS**
A LUNGA DISTANZA



MiDoMet LoRa Pulse



Plug & Play radio transmitter for monitoring measurements from water, gas, electricity and heat meters or any digital sensor.

- 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

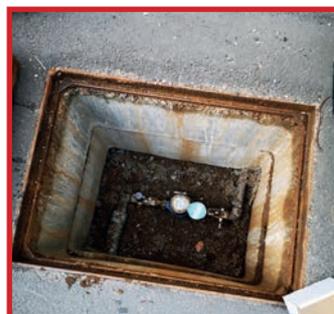
TECHNICAL FEATURES

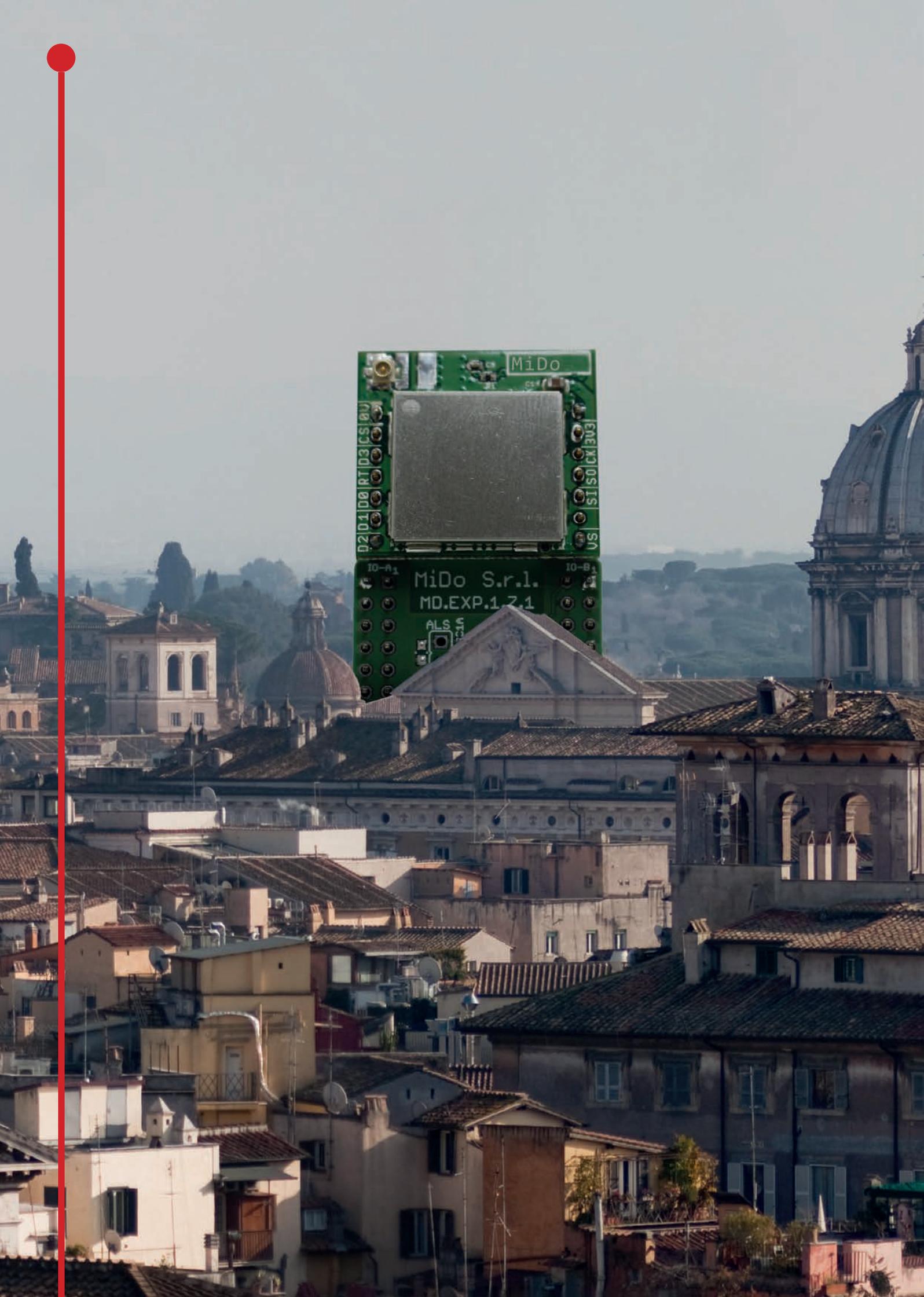
Input	2 IN digital (relay, reed switch, hall effect)
Radio Module	433/868/916 Mhz
Power supply	Battery Li-SOCL2 3,6V
Processing Unit	ARM microcontroller
IP Protection	IP 68

WHO IS IT FOR?

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 applications of Things.

USE CASES





MiDoMet LoRa Analog



Plug & Play radio transmitter for monitoring measurements from pressure sensors or analog sensors.

- 1 configurable analog input
- 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

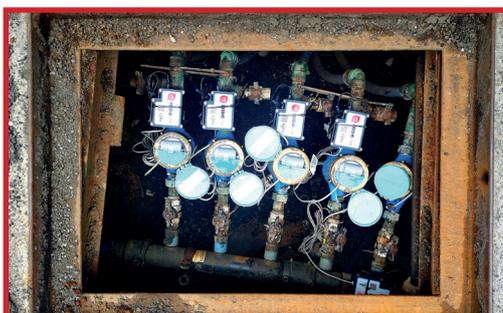
TECHNICAL FEATURES

Input	1 IN analog 0-20mA, 0-5V, 0-10V + Up to 2 IN digital
Radio Module	433/868/916 Mhz
Power supply	Li-SOCL2 3,6V Battery + battery pack sized for the sensor (up tpo 5 years of battery life)
Processing Unit	Microcontrollore ARM
IP Protection	IP 68

WHO IS IT FOR?

The MiDoMet Lora Analog is the extended version of the MiDoMet LoRa Pulse that in addition to the remote reading of meters or digital inputs provides an analog input for monitoring sensors such as pressure, level, quality etc ...

USE CASES





MIDO



NB-IoT

MiDoMet Nb-IoT



NBLoT, the long-range, low-power (LPWAN) network that enables the economic and simple development of Internet of Things applications.

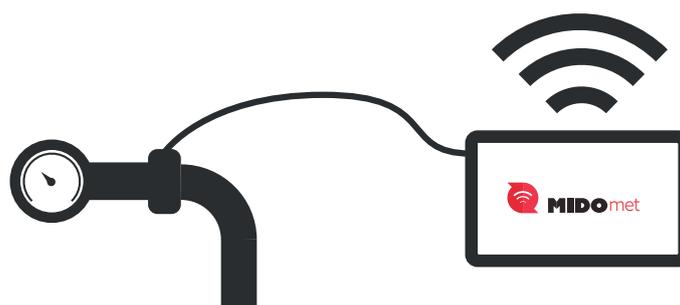
- Up to 2 digital inputs (opt. 4-20mA analog) for meters and sensors
- 4G NBLoT connectivity
- Resistant to environments with IP68 protection
- Self-powered (Up to 10 years of autonomy)
- Dimensions: 77mm x 70mm x 33mm

TECHNICAL FEATURES

Input	2 IN digitali (opz.1 analog 4-20mA)
Power supply	Li-SOCL2 3,6VDC Battery
Processing Unit	Arm Cortex - M4 32-Bit
IP Protection	IP 68

WHO IS IT FOR?

MiDoMet NBLoT is an innovative radio logger module, for the remote reading of water, gas, light, heat meters and any digital sensor (or analog sensor).



Contact us at **+39 0532 1640011**

MiDoMet Pressure Probe



MiDoMet Pressure Probe is full sealed submersible level transducer/transmitter.

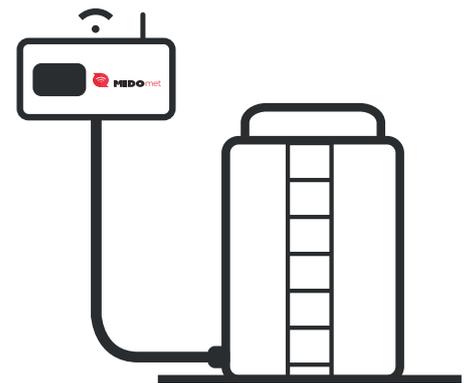
It is made by building in high stable and reliable OEM piezo-resistive pressure sensor and high accurate circuit board into the stainless steel housing.

Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

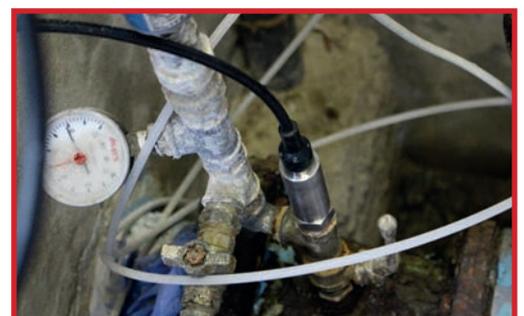
TECHNICAL FEATURES

- Output 0 ~ 5/10 V
- Environmental class IP68
- Accuracy: $\pm 0,50\%$ FS (standard)
 $\pm 0,25\%$ FS BSL (Including non-lin., rep. and hys.)
- Excellent resistance against impact, overload, Shock and erosion
- Working Temp -30 ~ 70 °C
- Terminals: PE cable (waterproof)

MiDoMet Pressure Probe has compact size, light weight and good stability; it can be used for water or liquid measure and control of medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, etc.



USE CASES



MiDoMet Level Probe



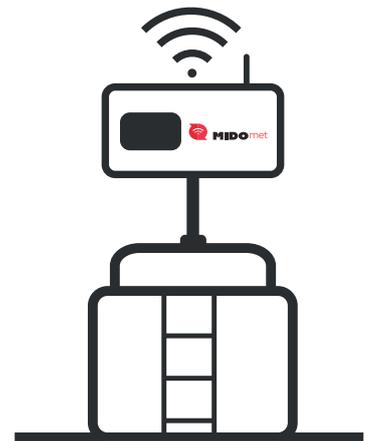
MiDoMet Level Probe is full sealed submersible level transducer/transmitter.

It is made by building in high stable and reliable OEM piezo-resistive pressure sensor and high accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

TECHNICAL FEATURES

- Output 4-20 mA.
- Environmental class IP68.
- Accuracy: $\pm 0,50\%$ FS (standard)
 $\pm 0,25\%$ FS BSL (Including non-lin., rep. and hys.).
- Excellent resistance against impact, overload, Shock and erosion.
- Working Temp -30 ~ 70 °C
- Terminals: PE cable (waterproof)

MiDoMet Level Probe has compact size, light weight and good stability; it can be used for water or liquid measure and control of medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, etc.



USE CASES



MiDoMet Soft e Cloud



MiDo completes its offer with customized software solutions based on the needs of its customers, with the aim of providing a complete remote monitoring system capable of supporting the management of its own network.

MIDOMET CLOUD

MiDoMet Cloud is the cloud service for data management coming from MiDoMet devices.

Through the system it is possible to monitor consumption and promptly identify leaks or faults.

The system is "multi-level and multi-access", for example:

- the administration uses it for billing on real consumption,
- the maintenance technician to check the good functioning of the plants,
- the user to view his own consumption



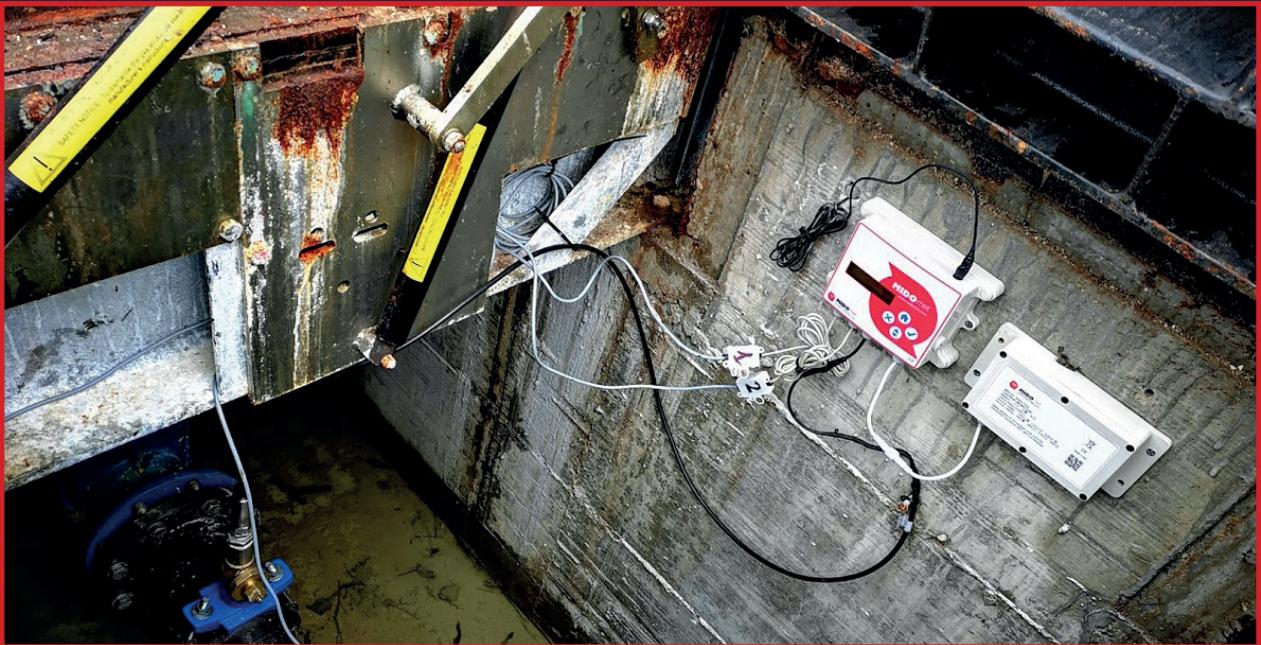
MIDOMET SOFT

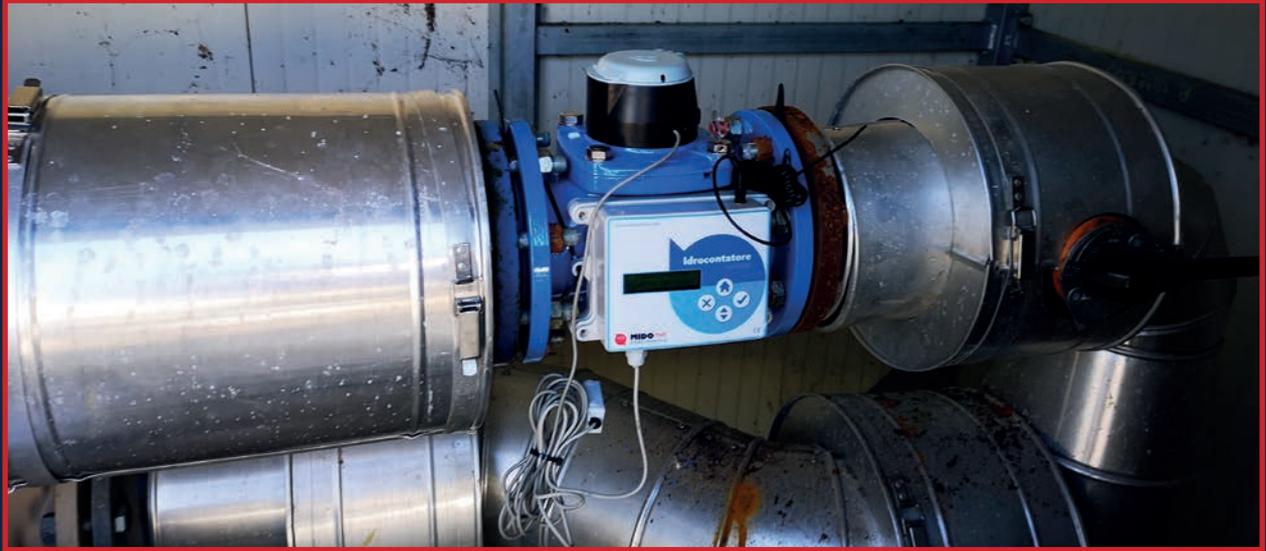
MiDo builds solutions based on customer needs.

The inputs of our devices can be set up to acquire any type of measurement.

Transmission protocols can be programmed to send data directly to customer management systems.







MIDOmet

smart metering

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