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, NBIoT, 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.

- **wired**
- **wireless**
- **water**
- **gas**
- **electricity**
- **general i/o**

**software cloud**
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
“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 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**

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Up to 10 digital input (dry contact, reed switch, hall effect, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Unit - Storage</td>
<td>ARM microcontroller - 8 Mbit memory</td>
</tr>
<tr>
<td>Power supply</td>
<td>Li-SOCL2 3.6V / 110-240Vca 50-60Hz</td>
</tr>
<tr>
<td>Data-transmission module</td>
<td>Modem OEM GSM/GPRS Quad Band</td>
</tr>
<tr>
<td>IP Protection</td>
<td>IP 67 / IP 68</td>
</tr>
<tr>
<td>Dimensions</td>
<td>158mm x 100mm x 52mm</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Inputs</th>
<th>32 radio WM-Bus OMS modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Unit - Storage</td>
<td>ARM microcontroller - 8 Mbit memory</td>
</tr>
<tr>
<td>Power supply</td>
<td>Li-SOCL2 3,6V / 110-240Vca 50-60Hz</td>
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<tr>
<td>Data-transmission module</td>
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</table>

**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 to 5 years)
- Small size

TECHNICAL FEATURES

<table>
<thead>
<tr>
<th>Input</th>
<th>1 analog IN 4-20mA or 0-5V/0-10V for pressure transmitters + up to 2 digital IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Unit - Storage</td>
<td>ARM microcontroller - 8 Mbit memory</td>
</tr>
<tr>
<td>Power supply</td>
<td>Li-SOCL2 3,6V Battery + battery pack sized for the sensor (up to 5 years of battery life) / 110-240Vac 50-60Hz</td>
</tr>
<tr>
<td>Data-transmission module</td>
<td>Modem OEM GSM/GPRS Quad Band</td>
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<tr>
<td>IP Protection</td>
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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
laddove si sono verificate delle anomalie, prontamente sono stati allertati gli utenti.
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**

<table>
<thead>
<tr>
<th>Input</th>
<th>Up to 2 IN analog 4-20mA, 0.5V, 0-10V + up to 8 digital IN - RS485 serial interface - ModBus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Unit - Storage</td>
<td>ARM microcontroller - 8 Mbit memory</td>
</tr>
<tr>
<td>Power supply</td>
<td>Li-SOCL2 3,6V Battery + battery pack sized for the sensor (5 years of battery life) / 110-240Vca 50-60Hz</td>
</tr>
<tr>
<td>Data-transmission module</td>
<td>Modem OEM GSM/GPRS Quad Band</td>
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**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**
IL FUTURO 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

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

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**

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

**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**
MiDoMet Nb-IoT

NB-IoT, 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 NB-IoT connectivity
- Resistant to environments with IP68 protection
- Self-powered (Up to 10 years of autonomy)
- Dimensions: 77mm x 70mm x 33mm

**TECHNICAL FEATURES**

<table>
<thead>
<tr>
<th>Input</th>
<th>2 IN digitali (opz.1 analog 4-20mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Li-SOCL2 3,6VDC Battery</td>
</tr>
<tr>
<td>Processing Unit</td>
<td>Arm Cortex - M4 32-Bit</td>
</tr>
<tr>
<td>IP Protection</td>
<td>IP 68</td>
</tr>
</tbody>
</table>

**WHO IS IT FOR?**

MiDoMet NB-IoT 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 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: ±0,50% FS (standard)
  ±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 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: ±0,50% FS (standard)
  ±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.