



AIoTWaves

amPERGROUP



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1. About Us



AloTWaves, the disruptive IoT telecommunications initiative of the Amper Group

AloTWaves bridges the present and the future by combining **IoT**, **AI** and **Telecommunications**, turning every interaction into a smart experience across key sectors including telecom networks, water, industry, energy, smart cities and transportation.





About Amper

Amper is a Spanish business group with nearly 70 years of history, more than 35 of them listed on the Spanish continuous market. The company has a significant international presence and is a leader in technological, strategic industrial and engineering capabilities, serving the Defense, Security and Communications, and Energy and Sustainability markets.

2. AIoT





Connectivity and Intelligence: Process Optimization

We integrate smart technology and connectivity to optimize processes and enhance real-time decision-making.

We drive efficiency and security across multiple environments by connecting physical devices with digital platforms to achieve effective digital transformation.



AIoT solutions focused on:

- Smart Water
- Tracker
- Smart Gas
- Industria 4.0

SOLUTIONS AIoT

Smart Water

● Smart Water

A set of IoT solutions designed for **remote water meter reading** and **remote management** (consumption, real-time alerts, monitoring and scheduling).

We offer **devices adapted to different brands** and models, **enabling water utilities** to obtain real-time measurements, detect potential issues such as disassembly, tampering or leaks, and optimize service monitoring.

In addition, communication via NB-IoT and/or Wireless M-Bus and LoRaWAN ensures constant and secure data exchange.



● Smart Water CLIP ON

These devices can be supplied either with the meter and the clip-on, or with the clip-on alone for field installation, without the need to replace the meter. This provides direct savings in installation, operating time, and process management.



Clip On



Clip on + Meter

WM1091-NB

Device designed to automate the remote reading of water meters. Compatible with the range of Diehl Metering® water meters.

[More information](#)



Clip On



Clip on + Meter

WM1021-NB

Device designed to automate the remote reading of water meters. Compatible with Honeywell Elster mechanical meters, models S220 and S150 (inclined dial).

[More information](#)

● Smart Water BRIDGE

This device facilitates the connection between two systems. It wirelessly reports data from up to 15 meters.



M9091-NB

Wireless gateway from WM-Bus to NB-IoT. Designed to be installed near devices with Wireless M-Bus transmitters.

[More information](#)

● Smart Water INTEGRATED METERS

Combines the function of measuring water consumption with built-in communication capabilities. The meter itself can automatically transmit reading data and other information remotely to a central platform, without the need for additional external communication modules.



WM3000-NB

Residential water meter that uses mechanical measurement technology with a rotating element and magnetic sensing.

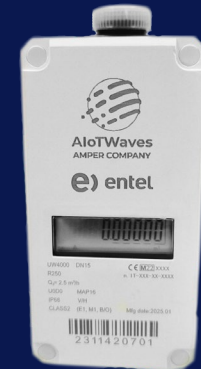
[More information](#)



WM3010-NB

Residential water meter that uses ultrasonic technology and NB-IoT communications.

[More information](#)



WM4000-NB

Residential water meter that uses the principle of water flow measurement through ultrasound and NB-IoT communications.

[More information](#)

AIoT Solutions

Tracker

● Tracker

BALIZA V19

The Baliza v16 positioner, from AIoTWaves, offers the possibility to customize products (hardware, firmware, protocols, and form factor) to meet specific requirements.



V16 Model

It features geolocation capabilities and low-power 4G NB-IoT communication, enabling connection to the DGT 3.0 platform for real-time location tracking.

[More Information](#)

AIoT Solutions

Smart Gas

● Smart Gas

AloTWaves expands its innovation with the ongoing development of Smart Gas Metering, advancing intelligent resource management.



Model

Gas meter with NB-LoT communications in different bands or LoRaWAN. Available in G4 and G6, featuring ultrasonic sensing technology.

[More Information](#)



Model

Description

[More Information](#)

AIoT Solutions

4.0 Industry

● 4.0 Industry

INDUSTRY RANGE

Available for **communication via Radio** or NB-IoT, it is designed for installations of any type of fluid with a maximum pressure of 30 Bar. In addition, it includes a motion sensor, tamper detection with rings or safety valves, temperature monitoring, and NFC.

[More Information](#)

HERCULES RANGE

The Hercules range is available with NB-IoT or LoRa connectivity. With a pressure range from 0 to 1000 Bar, these pressure gauges can measure and monitor any type of fluid at any temperature according to EN 837-1, and they are also available in an ATEX version.

[More Information](#)



More relevant information:

- Factories
- Technologies and Devices
- Platform and App
- Certificates
- Case Studies
- Types of Contracting

● Factories

Our network of factories in Spain and China offers our customers the flexibility to choose the manufacturing location, thereby optimising their logistics and supply chain strategy, adapting our production capacity to the needs of each project, and allowing manufacturing to be aligned with logistics, cost or market objectives.

Spain:

- Jaén -1
- Madrid -4
- Bilbao -1

China:

- Ningbo -1
- Hangzhou -1
- Linyi -1



● Connectivity, technologies and devices tailored to your needs

We analyse the specific characteristics of your environment to deploy the most efficient technology and the most suitable device, always ensuring data capture. Whether you need local control, mass coverage or a hybrid solution, we have the perfect combination of technology and devices for your project.

COMMUNICATION TECHNOLOGIES

Lora:

Applied for limited environments, it requires infrastructure deployment and maintenance. Can be used for other applications.

NBLoT:

Ideal for large areas to be covered. Dispersion in areas to be covered. Dependence on the operator. No responsibility for deployment or maintenance.

W-MBus:

Ideal complement for local readings in the event of loss of coverage or absence thereof.

DEVICE FORMATS

Clip on:

Modular and optimised in terms of price. If one of the two modules breaks, the tool can still be reused.

Integrated:

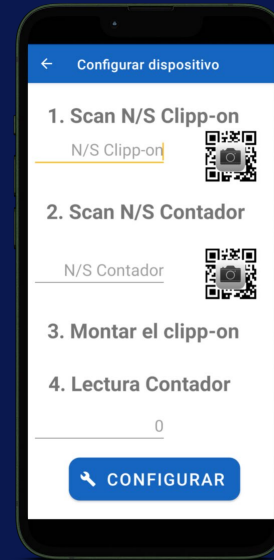
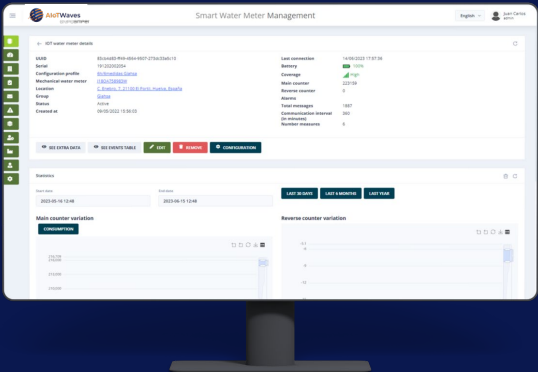
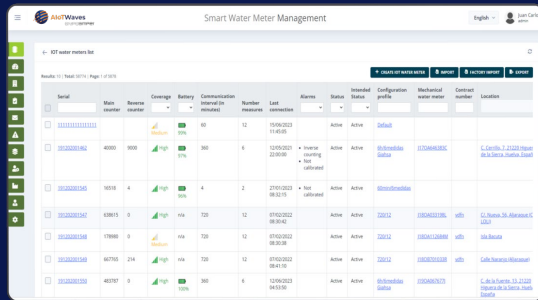
Compact, digital, no pairing required.

Bridge:

Suitable for grouping meters transmitting via WMBUS. Solution for areas with no or poor coverage.

Platform and APP

Your smart command center. Full control of your IoT assets, accessible 24/7 from the web or your mobile. We provide our clients with a platform and app to monitor and manage all the devices they have contracted.



● Success stories and references



AloTWaves leads projects for the digitisation and smart management of water meters throughout Spain, promoting operational efficiency and sustainable water resource management.

Among the main success stories are:



400,000 meters digitised by 2024 and management platform.

Projection: 1 million water meters.



20,000 meters digitised by 2024 and management platform.

Projection: 150,000 water meters.



3,000 digitalised meters by 2024 and management platform.

Projection: 500,000 water meters.



1,000 digitised meters by 2024 and management platform.

Projection: 150,000 water meters.



12,000 digitalised meters by 2024 and management platform.

Projection: 2 million meters.



● Success stories and references

AloTWaves leads projects for the digitisation and smart management of water meters throughout Spain, promoting operational efficiency and sustainable water resource management.

Among the main success stories are:

		
Aguas de Madeira	Aguas Andinas De Chile	Telecom Argentina
Integrated meter pilot programme launched.	Integrated meter pilot programme launched.	Integrated meter pilot programme launched.
Projection: 100,000 meters.	Projection: 500,000 meters.	Projection: 500,000 meters.

● Certified Quality and Compliance

Our commitment to excellence is reflected in our compliance with the most rigorous standards and certifications, guaranteeing the highest quality, safety and reliability in every product.



CE – Compliance and Safety in Europe

Ensures that our products comply with all legal and safety requirements for marketing within the European Economic Area.



MID – Accuracy and Reliability for Billing

Certifies that our measuring devices comply with the Measuring Instruments Directive, ensuring maximum accuracy for legal billing.



WRAS – Drinking Water Safety (UK Market)

Ensures that our products are suitable for contact with drinking water without contaminating it, complying with strict UK regulations.

● Flexible contracting models: CAPEX and OPEX

Nuestras soluciones se adaptan a las necesidades financieras de cada cliente, ofreciendo la flexibilidad de elegir el modelo de inversión más adecuado para cada estrategia empresarial.

CAPEX

Acquisition of devices and infrastructure through a single **initial payment**.

Ideal for organisations that:

- ✓ They seek to make a one-time investment and register the hardware as a company asset.
- ✓ They have a capital budget (CAPEX) allocated to technology acquisition.
- ✓ They prioritise physical ownership and total control of the equipment from day one.

"IoT as an Asset" model

OPEX

Access to a comprehensive solution through a **periodic fee (monthly/annual)**, without the need to purchase hardware.

Ideal for organisations that:

- ✓ They prefer to avoid a large initial investment, opting for predictable and controlled operating costs.
- ✓ They require a complete 'all-inclusive' solution (hardware, connectivity, platform, and support).
- ✓ They value flexibility and scalability to adapt the service to business growth.

"IoT as a Service (IoTaaS)" model



AIoT Waves

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