NETHIX

WE CONTROL

01 ABOUT US

Since the year 2000 we develop and manufacture complete solutions for the remote access, monitoring and control.

We are a young and dynamic team of engineers and professionals, specialized in the engineering and in the Hardware, Firmware and Software development of embedded systems.

Finding the right solution for every customer, and reducing the effect of the distance between the plant and its supervisor, it's for us the most important challenge and our greatest accomplishment.

ABOUT US

100% MADE IN ITALY

We design and manufacture entirely inside our Italian factory in order to grant our customers the highest quality level and a first-class technical support.

We offer a wide range of off-the-shelf products and **plug-and-play** solutions, but at the same time we can be a first-class **technological partner** for the development of custom products and new solutions with a reduced time-to-market.

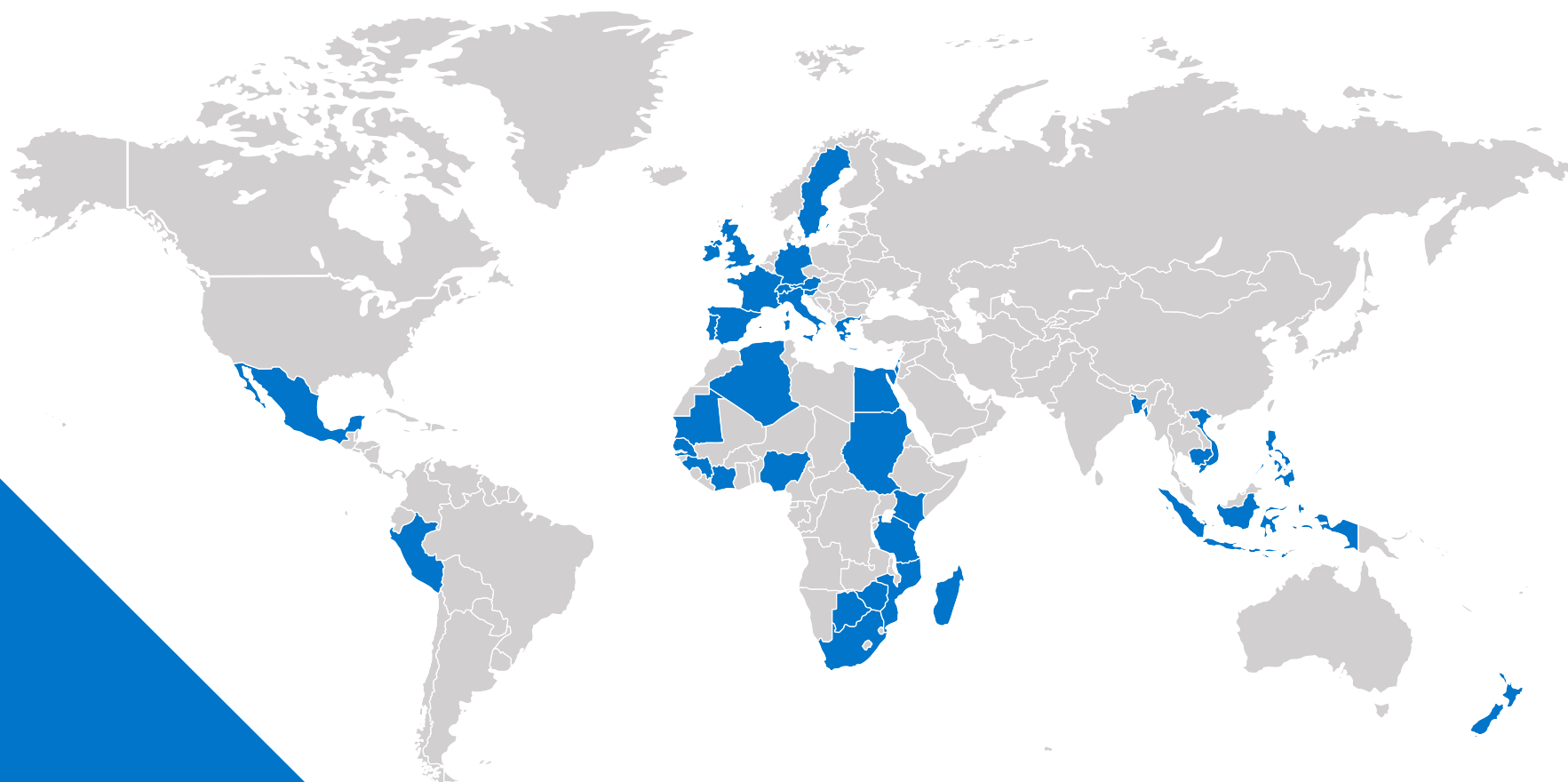### THE ADVANTAGES OF CHOOSING NETHIX SOLUTIONS:

- Highest satisfaction of customers thanks to reliable and easy-to-use products

- Considerable reduction of maintenance costs

- Increase of the performance and lifetime of the plants through a predictive diagnostic.

NETHIX WORLDWIDE

Our installations

Thanks to the highest quality and reliability, our products are successfully being deployed all over the world since over 20 years.

02 OUR PRODUCTS

Reliable, easy-to-use and versatile. Complete and flexible solutions, designed to shorten the distance between the machine and the supervisor.

WE FAMILY is a range of wireless devices for the **Industrial Internet of Things (IIOT)**, developed by Nethix to fullfil the requirements of remote access, monitoring, data collection and control. A wide choice of products to grant the best solution for each customer.

WE110

WE110

GSM/SMS remote controller

WE110 is a compact, low cost and ready-to-use solution.

Downloading the **free App** it's possible to control the heating system at any time and from any place, or to open the gate at home with a simple tap on the smartphone.

Thermostat

It sets and controls the temperature at home. It allows to program the cooling or heating system for the whole week.

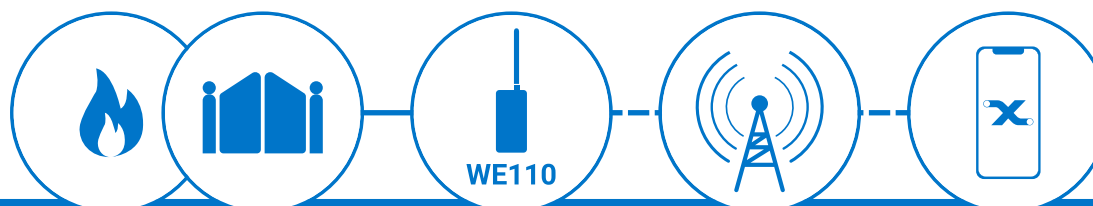**Universal Remote Control**

It turns on and off remotely any electric device or equipment (watering system, lights, actuators and many others) and keep informed about the system status.

Gate opener

With a simple tap on the smartphone it allows to open and close electric gates, doors or barriers. It can manage up to 100 registered users.

All models are now available in the optional version with BATTERY, that sends an SMS notification when power supply fails.

WE110

WE120

Universal and compact remote solution

WE120 is the right choice for small automation and control systems.

It allows to send **notifications** and **alarms via SMS** at the occurence of predefined events.

WE120 is a light compact and reliable solution for the remote control of small industrial or domotic installations.

It allows to control in real-time the system status of machines and devices and to interact via App through simple commands, such as **switch-on**, **switch-off** and **set**.

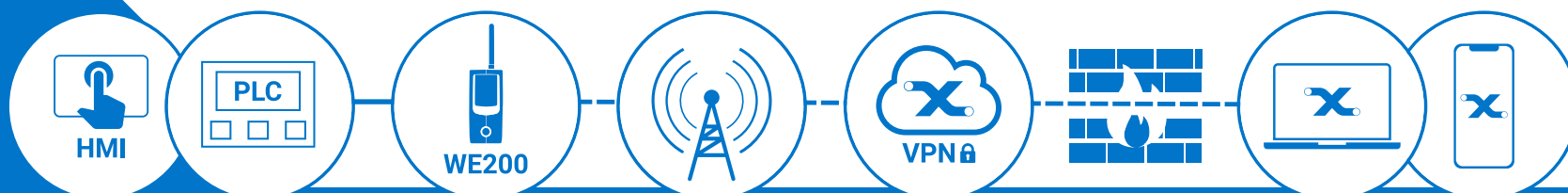WE120 is expandable and can be configured from **Windows**, **Mac OS** and **Linux**.

WE200

WE200

Industrial gateway for the remote assistance

With WE200 is possible to access any machine, device or PLC at any time through **secure VPN connections**. It provides remote access in order to allow predictive maintenance and remote assistance , thus reducing the number of services on sites and machines downtimes.

WE200 is a secure and high performance **industrial gateway with 3G/4G connectivity**, that provides remote access to any device or machine through **serial interface**, **Ethernet** or **USB**.

WE200 is compatible with all devices having **serial ports RS232/RS485** and **USB**, independently from the supported protocol; it offers several routing functions, such as **NAT**, **Port Forwarding** and **Port filtering**.

HSPA
VPN
USB
POWER

WE200

NETHIX

HMI

PLC

WE200

VPN

WE300

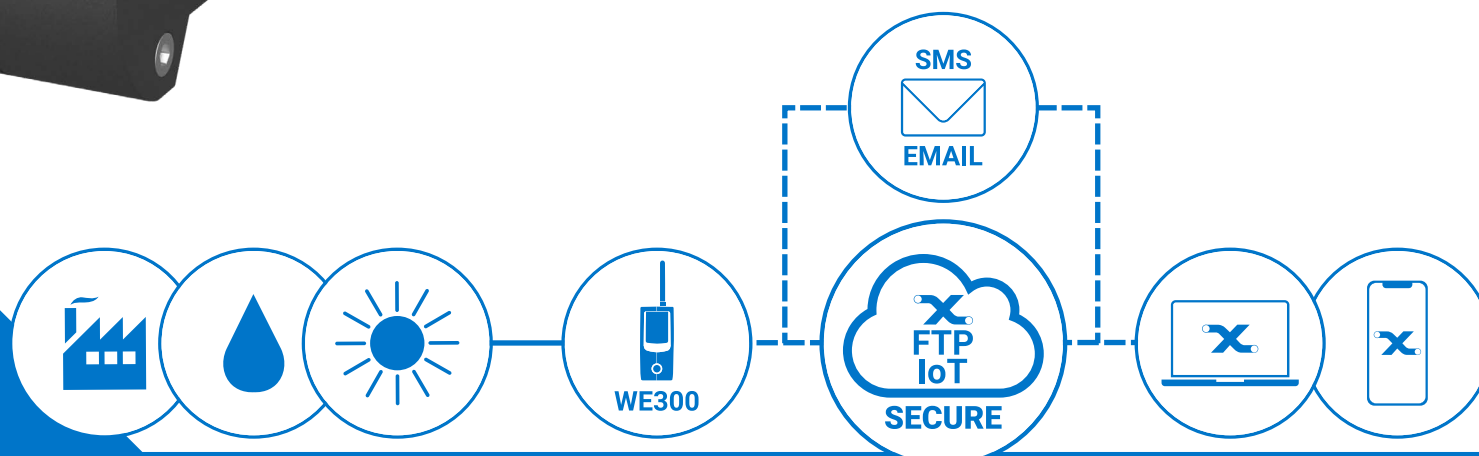## Compact solution for the monitoring and control

WE300 keeps monitored any type of machine or device, even when unattended.

It allows to receive **alarms** and **notifications from the system**, and permits to configure when and where the collected data shall be delivered to, in order to provide a centralized management and analysis.

WE300 is an easy-to-use and compact system, ideal for those applications that require a simple and easy system for **data acquisition** and **alarms management**, counting on a limited budget.

The acquired data can be delivered to the **Cloud** either via **email report** or via **ftp**.

Thanks to the **backup-restore** function it's possible to configure several devices in a quick and easy way.
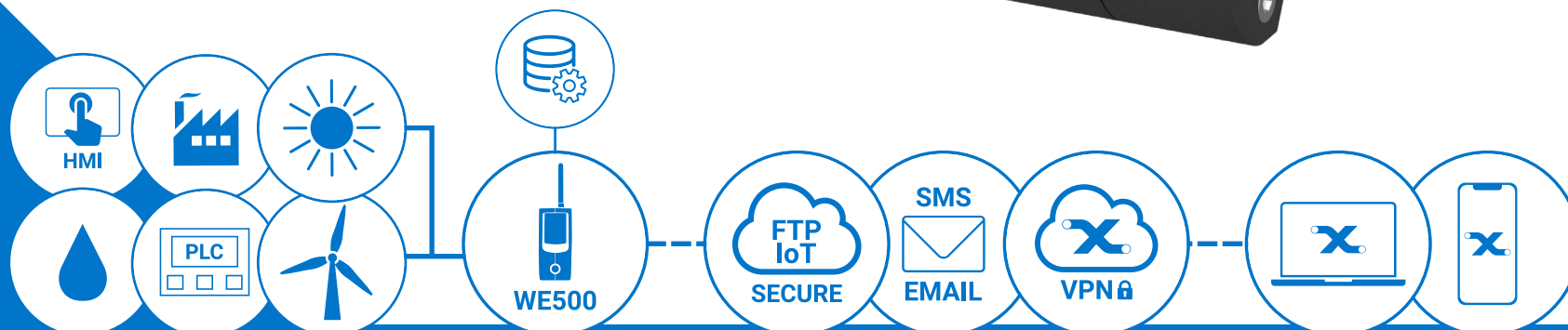
WE500 3G/4G

The complete solution for the remote access, monitoring and control

WE500 is a **RTU** (Remote Terminal Unit) for the unattended remote monitoring and control of plants and equipments.

It collects and stores parameters, values and information from remote and unattended sites, and make them available on **several IoT platforms**.

WE500 remotely handles the status and the different functions of the system: it's always available on line thanks to its consolidated connection strategies, that grant the access to the data even in extreme critical conditions.

WE500 offers an advanced events management system, using **scheduler function** and **formulas**.

XP500

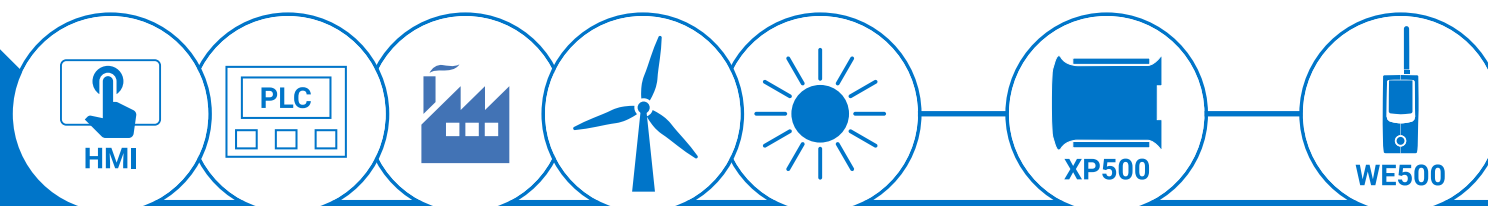## Expansion modules modbus RTU and TCP

Some applications may require a higher number of inputs/outputs, than those already available on board of the WE300 and WE500.

In such cases it's possible to add digital inputs/outputs and analog inputs/outputs through the XP500 expansion modules.

These additional modules can be easily installed and configured through a user-friendly procedure, available on the web interface of WE500 and WE300.

XP500 expansion modules communicate with the device through the **Protocol Modbus RTU** on **RS485** or via **Modbus TCP** on **Ethernet**.

It's possible to connect several expansion modules (Server Modbus) on one single device (client Modbus).

UPS500

UPS500 is a **switch mode power supply unit** with **back-up battery pack**, developed to be used on all Nethix devices for the remote control.

UPS has been designed as a complementary product for WE500. Besides its main switch mode power supply function, UPS500 can also detect the status of the network and of the internal battery pack.

Through the two available outputs, UPS500 can detect network or battery power outages and send signals to the WE500, that in turn informs one or more selected users and powers-off WE500 safely, to avoid uncontrolled switch-offs.

DEEPLOG

Battery powered monitoring system for outdoor applications (IP68)

Deeplog is a battery powered datalogger, specifically designed for the **monitoring of water networks** and **unattended plants**.
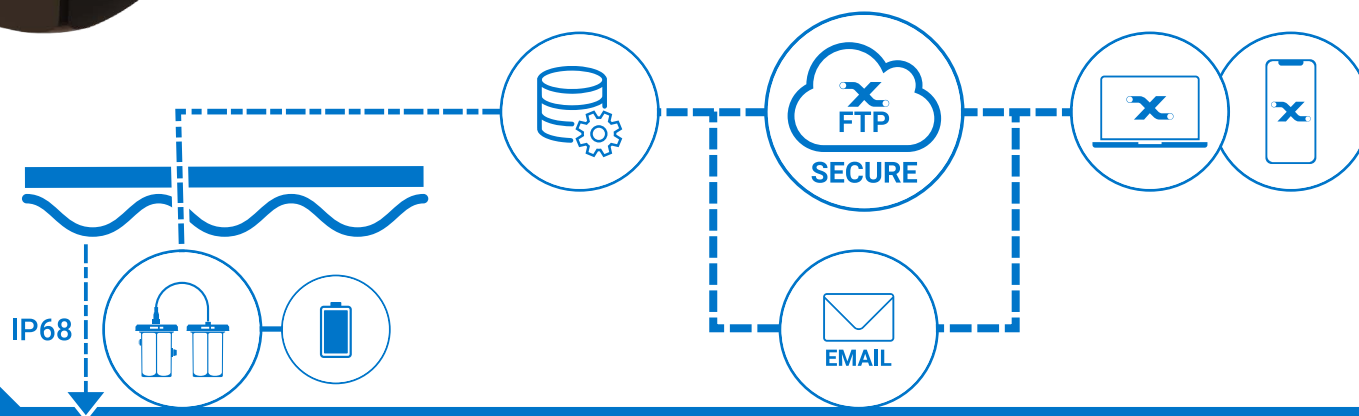
Thanks to the **modular system** the battery pack can be changed very easily.

In order to preserve battery life, Deeplog remains in energy saving status and periodically wakes up according to the preconfigured intervals of time, defined by the user.

Once activated, Deeplog reads the parameters collected by the wired sensors. All collected data are then saved locally and forwarded to a remote server (Deeplog Cloud or other ftp-server) through the mobile connection granted by the SIM available on board.

Deeplog can also send SMS alarms or notifications, when the monitored parameters should exceed the thresholds, configured by the users.

Deeplog is configurable via **Bluetooth**.

03 CLOUD

NETHIX CLOUD

Nethix cloud service allows the real-time monitoring and control of unattended sites.

It collects and transfers via **GPRS**, **UMTS** and **LTE** all data coming from the deployed devices and make them available on an intuitive centralized visulization platform.

The reliability of Nethix Cloud service is granted by a dedicated **VPN** channel and by a **secure communication**, made according to standard encrypted protocols.

CLOUD

The communication between the server and each device can take place in a "**Always-on**" or "**On-Demand**" modality, according to the specific application's requirements.
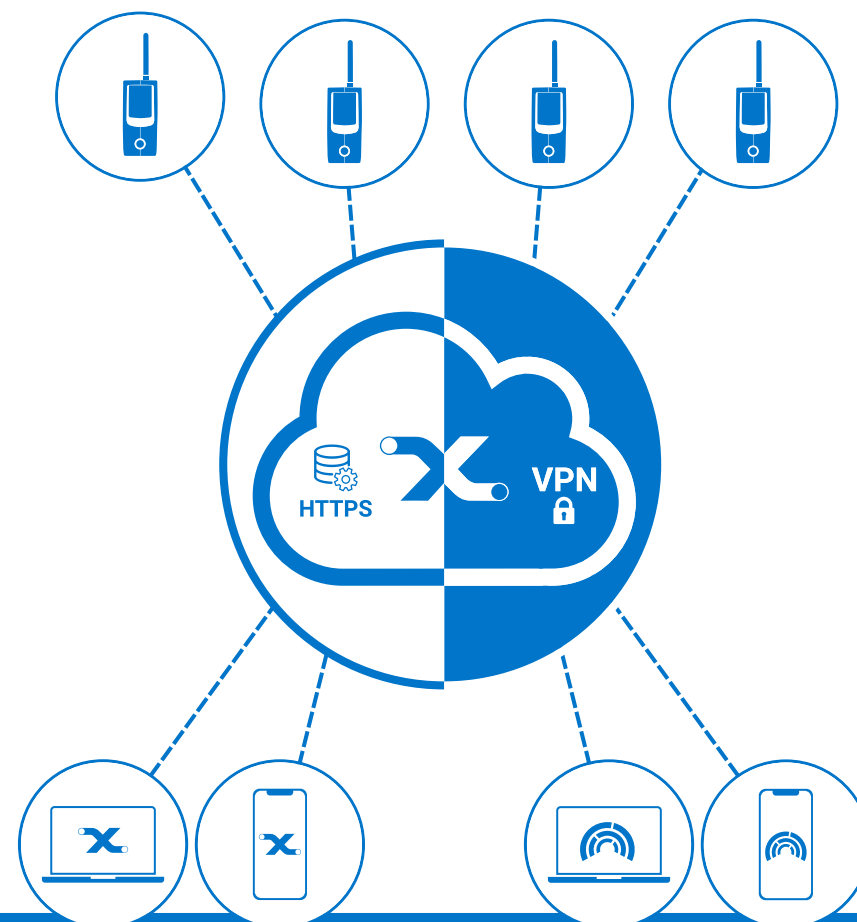
It also allows the extensive data exchange, using **standard encryption protocols (such as HTTPS)**; while the data reading can be made in **real-time** by a client connected to the net through any browser (via PC, Tablet or Smartphone).

There are no obligations for the localisation of server, client and devices.

For extensive systems and installations the Cloud can be customized according to the specific requirements of the application and hosted by Nethix "data center".

THE ADVANTAGES OF NETHIX CLOUD

- Reduction of the time required for the monitoring and control of all deployed devices.

- Possibility of configuring and controlling several devices at the same time

- Guaranteed secure communcation, thanks to the used encryption protocols

- Availability of all required data, in a very clear and intuitive visualization.

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