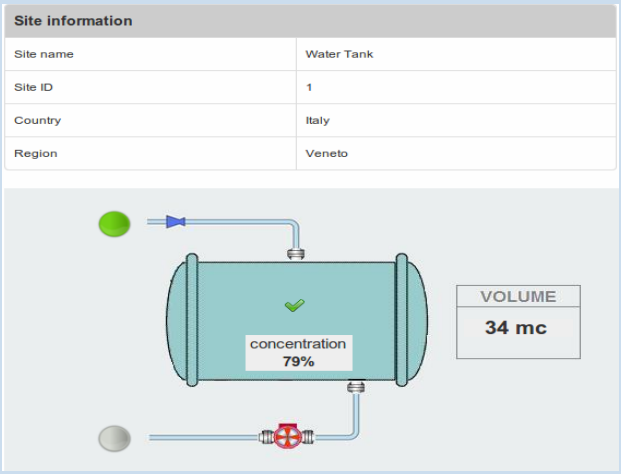
we control WATER

water energy gas industrial home automation m2m

Wireless water plant monitoring system

we500 is a flexible, full featured and high performance solution that allows to remotely monitor and control every single part of a water plant, from the water tank level, to the pumps and the flow measurement sensors.



Autonomous system

WE500 needs only a data enabled SIM card and a power source for accomplishing its activities. It does not need any kind of on-site human interaction.

Wireless connectivity

The built-in web interface provided by WE500, that allows to monitor and download logged data, is available through 2G/3G wireless data connection, LAN or wireless LAN. The web interface can be accessed from a PC browser or from any mobile device using the iOS or Android apps provided. The remote server to which the data is sent can be located in the cloud or in the customer premises.

Redundancy

WE500 is the only device on the market with an optional dual modem that provides wireless connection redundancy to mission-critical systems. The redundancy is provided through several policies that can be selected according to the users needs.

User friendly

The web interface is self-explanatory and versatile. Data is presented with tables and multi-trace graphics, that allow to compare several parameters in a single plot, such as the comparison between the incoming and the outgoing flow. Several elements of the user-interface can be personalized, such as the company logo and colours, giving the desired look & feel.

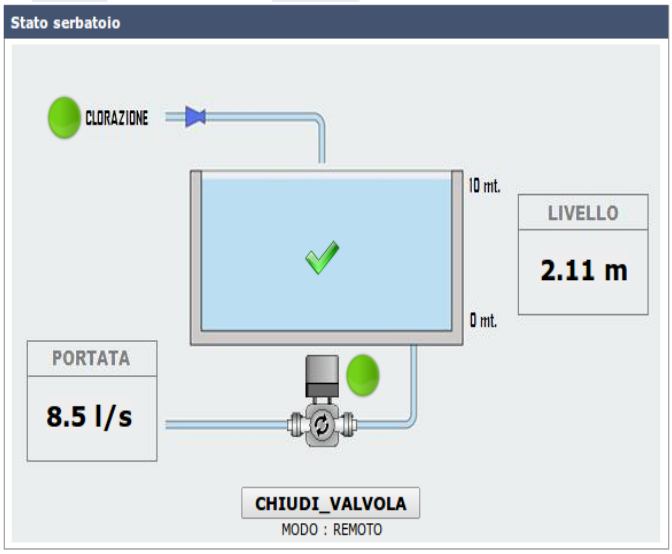
Customizable and expandable

Thanks to its modular and flexible system architecture, WE500 can be customized according to specific needs. New or existing modules can be easily added and/or modified following user requests. WE500 is also expandable through additional analog and digital inputs/outputs when required.

NETHIX WE CONTROL

Water plant data logging

WE500 provides a sophisticated data logging mechanism that obtains the system status through the local I/O, modbus or other custom protocols and sends the data to a remote server using standard protocols such as HTTP and FTP. The data can be stored in the internal memory or in USB memory sticks. It can also be downloaded in several format such as XLS and CSV. The flexibility of WE500 allows to control several plant parameters such as the incoming and outgoing flow measurement.



Remote diagnostics

WE500 can monitor and detect system malfunctions such as water leaks and report them through an advanced alert system that sends notifications to selected users by SMS or email.

It can send the notifications to a a remote server that can analyze the data and reply with an action through the same channel or even by SMS commands that can be executed by the WE500.

WE500 can also communicate with other Nethix products through SMS, ring or email. This can be useful for automating several operations such as the activation of a pump when the water level reaches a programmed threshold.

Real time monitoring and control

WE500 allows to monitor the performance of any water plant parameter such as the liquid level, the volume, the pressure and the density, in real time by displaying multi-trace graphics or tabulates that can also be downloaded for further post-processing.

we500 Technical data

- CPU: ARM 32-bit
- Storage: 1 GB Flash
- Communications: 2x RS-232, 1x RS-485, MODBUS
- Local I/O: 8 digital IN, 2 digital OUT, 2 analog IN
- Wireless: Modem 3G/HSPA or 2G/GPRS
- Connectivity: Ethernet 10/100 Mbit RJ45
- Optionals: Dual modem, USB, WiFi

we control TECHNOLOGY

NETHIX WE CONTROL

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