

MEDUSA

The present of aquaculture



What is Medusa?

Medusa is a versatile, autonomous, and rechargeable IoT device. that continuously and in real-time assesses water quality parameters.

The current configuration accommodates up to seven parameters: OD, pH, turbidity, NH4+, temperature, electroconductivity, and ORP.

NH4+

Ammonium

pH

pH

Tb

Turbidity

DO

Dissolved Oxygen

T^a

Temperature

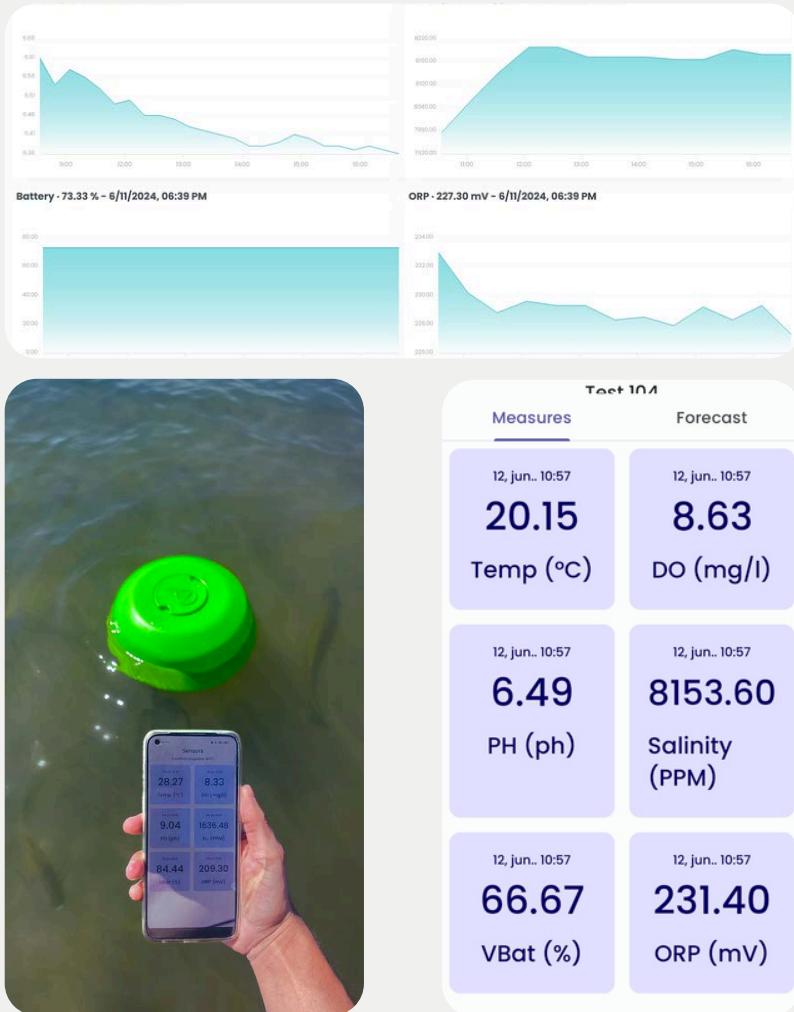
EC

Electroconductivity

ORP

Redox potential





Intelligent Forecasts

Numerous factors can influence fish farming, including low oxygen levels, abrupt temperature fluctuations, elevated salinity, deviations from the optimal pH range for the fish, or low oxidation-reduction potential (ORP). If these parameters are not adequately managed, fish stress may escalate, resulting in a heightened risk of disease and mortality.

Medusa can assist in mitigating these issues by offering Real-time measurements are conducted 24 hours a day, providing early alerts to your mobile device. Additionally, with the aid of Artificial Intelligence, you will receive three-hour forecasts for parameters such as temperature and pH.

Furthermore, over time, the system integrates with the SMARTWATER CLOUD production management application, learning from the data it gathers and forecasting events through artificial intelligence.

Up to two months of autonomy

The MEDUSA battery has been engineered to optimize efficiency in energy storage and consumption, which enables you to maintain up to two months of autonomy.

Additionally, it requires a full charge time of 7 to 8 hours, allowing for all-day usage and overnight charging to ensure readiness for daily use.

This blend of autonomy and rapid charging capabilities renders MEDUSA suitable for a diverse range of applications and uses.



Connectivity

The MEDUSA device features four connectivity options: Cellular, LoraWAN, WiFi, and Bluetooth. Each option provides distinct advantages and usage possibilities, enabling MEDUSA to connect to various networks and devices as required.



Red móvil



LoraWAN



WiFi



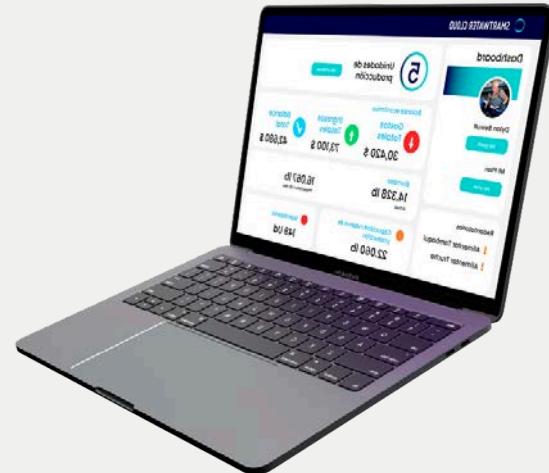
Bluetooth

SMARTWATER CLOUD

Integrate MEDUSA with our SMARTWATER CLOUD web application for production management, and you will achieve complete control.

Facilitate the management of your production center by simplifying and streamlining all processes. Oversee all aspects of your production management from your PC or smartphone.

Download all parameters recorded by the device in CSV format from the MEDUSA module.



Dashboard



Feeding



Unit of production



Shopping



Balance



Sales



Stock



Projections



Traceability



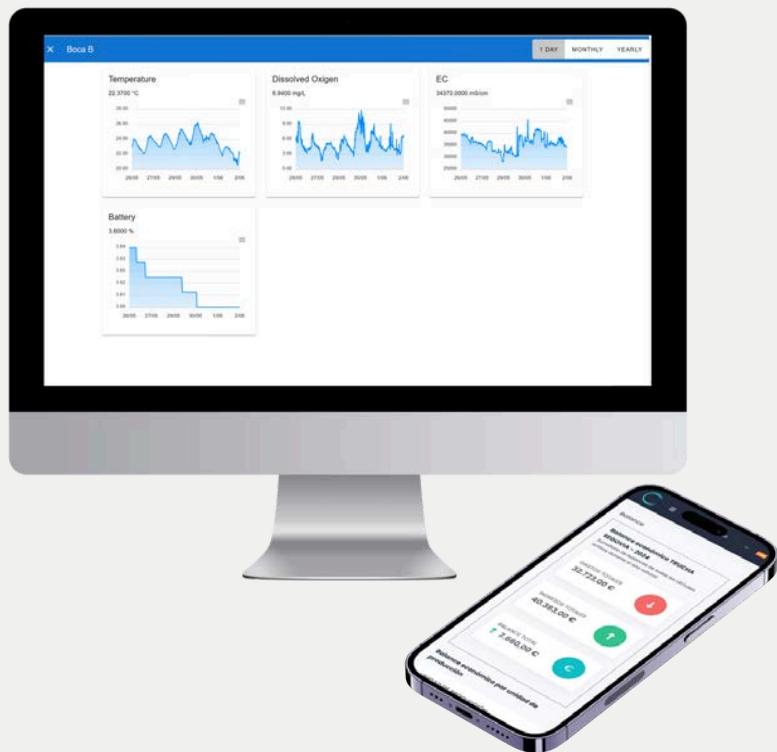
Certifications



Medusa

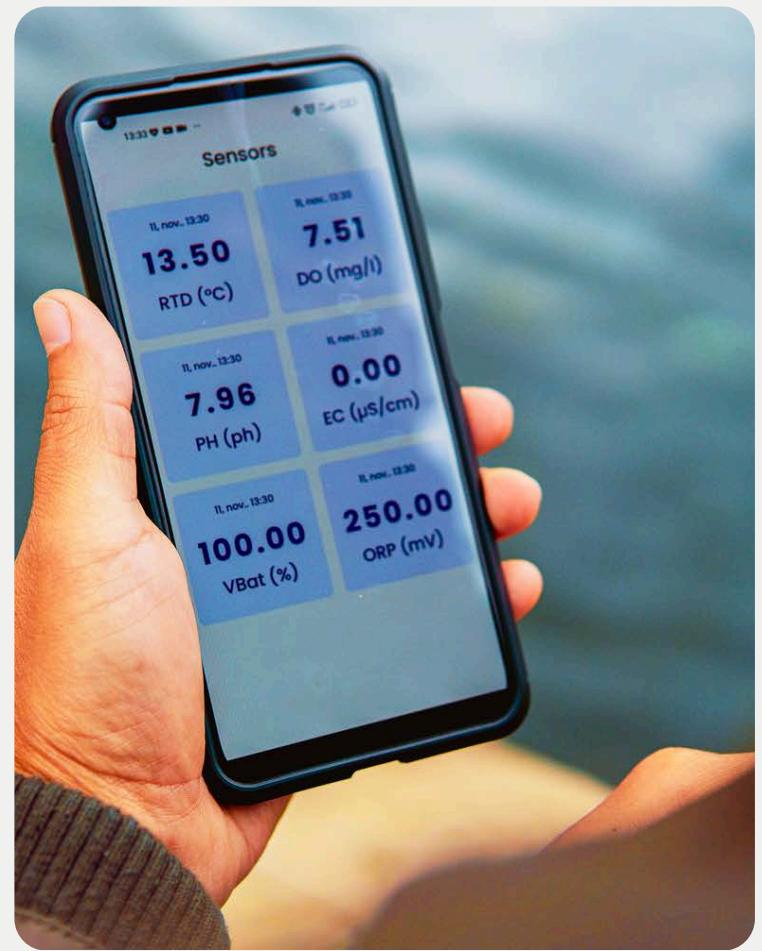
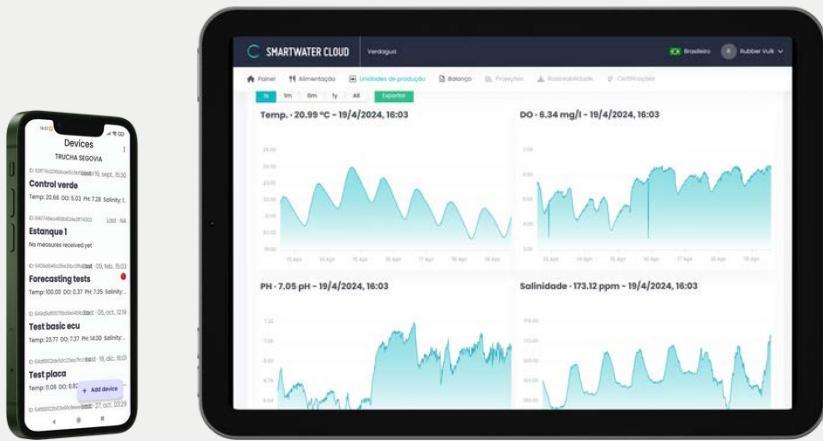
Visualize MEDUSA information

The MEDUSA module within the SMARTWATER CLOUD web application allows users to access the historical data of parameters recorded by the device. Additionally, users can download the history from the past 14 days via a smartphone or PC at any time, day or night.



MEDUSA Application

With the MEDUSA App, you can monitor water quality in real time and receive notifications if any parameter strays from optimal growing conditions. This capability enables you to make prompt and effective decisions at any time, regardless of your location in the world.



Additional Smartwater Planet products



The **ACTUATOR** is an electronic device capable of internet connectivity, designed to integrate with Medusa for direct interaction with field devices such as aerators, feeders, gates, and others.



MEDUSA PING is a buoyant device equipped with lithium-ion batteries, offering an autonomy of up to 30 days. It features an echo sounder capable of measuring depths ranging from 0.50 m to 100 m with a 25-degree beam angle.

Contact us

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