

TENTAKL

The easiest way to automate your farm

What is TENTAKL?

TENTAKL is an electronic module with GSM / WiFi / LoRaWAN connectivity. It receives remote commands, programmed routines, and automations based on readings or alerts from Medusa to independently open/close relays.

You can actuate, among others, the following:



Aerators



Pumps



Motors



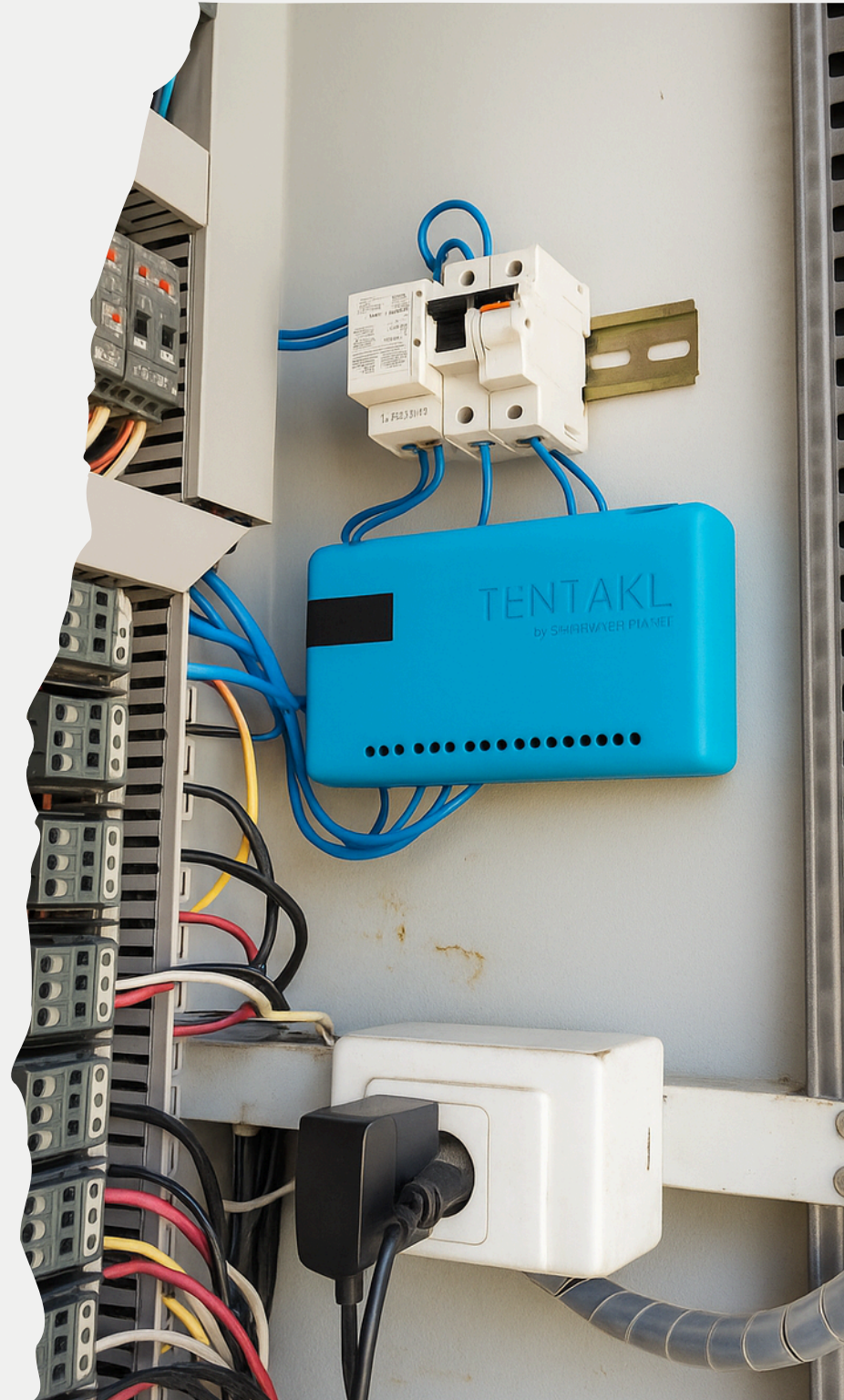
Air Pumps



Water Gates



Alarms



Operating modes

TENTAKL has three operating modes: **Remote control**, **Programmed tasks**, and **Automatic based on water quality**.

1. Remote control

From anywhere in the world, you can turn your equipment on or off with one click from the Medusa Panel Control (mobile or computer) and view the status of each TENTAKL in real-time. Everything will be available on an interactive map to quickly locate each production unit. All actions are logged.



Key benefits: Response in seconds, fewer trips, and optimisation of time.

Operating modes

2. Programmed tasks

Configure on and off routines based on your daily operation. Example: Aerators **ON** at 05:00 and **OFF** at 09:00 every day, or just on weekends during warmer periods. Tasks are saved and will be executed automatically.



Key benefits: Operational discipline, energy saving, and less equipment wear.

Operating modes

3. Automatic based on Water Quality

Integrate **TENTAKL** with **MEDUSA** and let the system work for you. Create rules based on readings of Dissolved Oxygen (DO), pH, Temperature, ORP, Conductivity, Turbidity, or Ammonium:

Example: Air pump **ON** if $DO \leq 5$ mg/L and **OFF** when $DO \geq 8$ mg/L.

Extend the logic to any critical parameter of your cultivation.



Key benefits: Immediate response to events, reduced mortality, efficient use of aerators and pumps, only when needed.

Connectivity

TENTAKL features four connections: Mobile Network (GSM), LoRaWAN, WiFi, and Bluetooth. Each of these offers different advantages and usage possibilities, allowing it to connect to different networks according to user needs



Mobile Network



LoraWAN



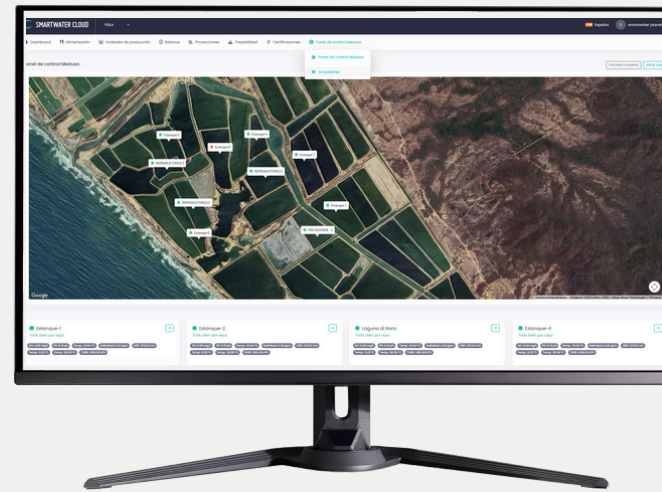
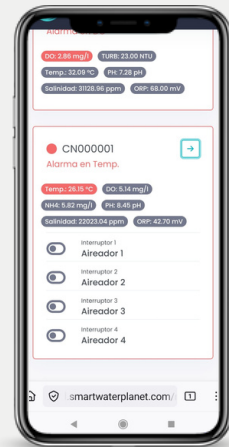
WiFi



Bluetooth

Everything managed from a single platform

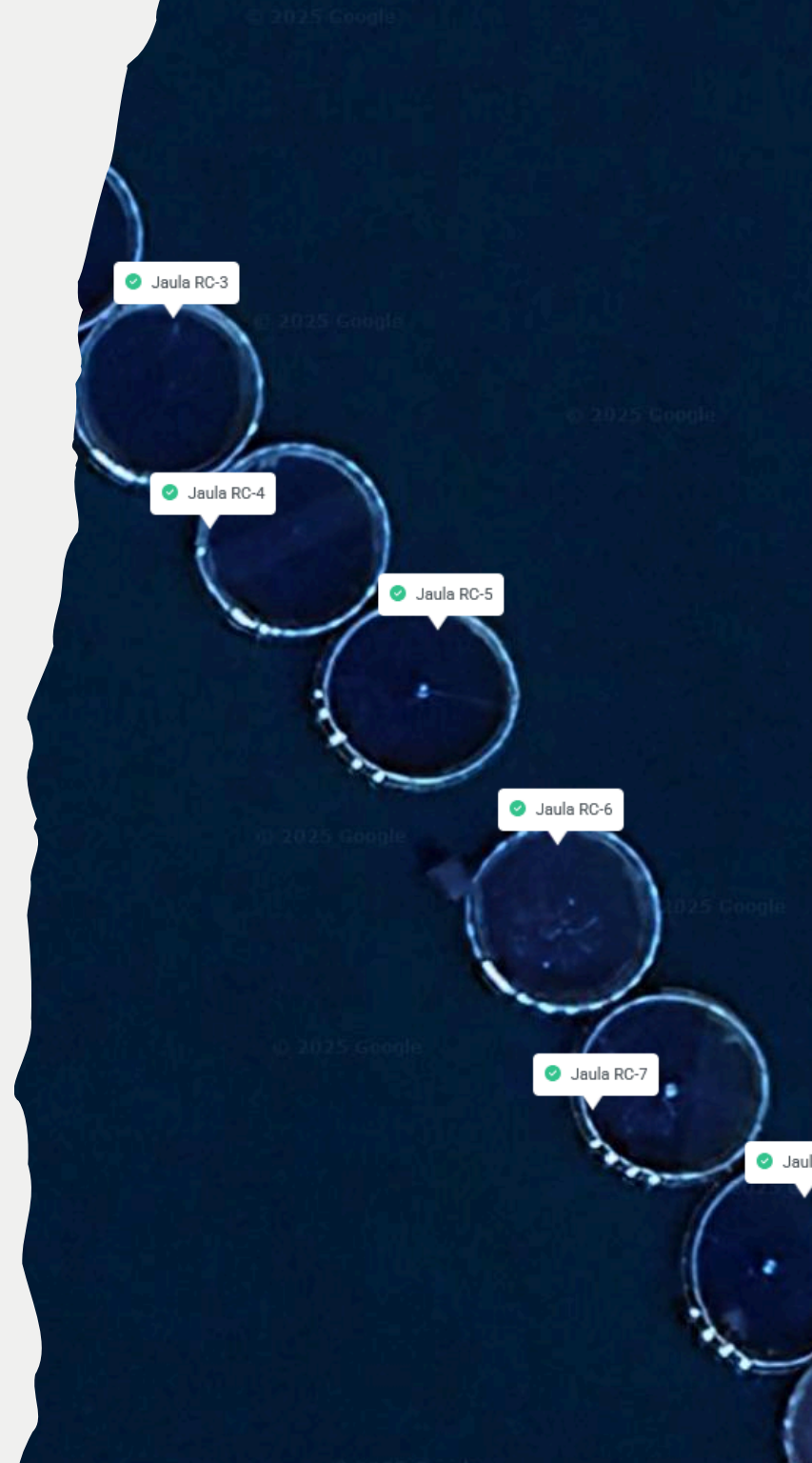
Medusa Control Panel is a web platform that integrates your **MEDUSA** (water quality) and **TENTAKL** (automation devices) into a single and easy-to-use site. It allows you to supervise, analyse, and act upon your cultivation in real-time. You can view all units on an interactive map, monitor water parameters, and remotely or automatically turn aerators, pumps, or solenoid valves on/off.



Key benefits: centralises information, configures routines, enables automations based on critical readings, optimises energy consumption, improves operational efficiency, and enhances decision-making.

Why Choose TENTAKL?

- A single platform for monitoring and action (data + control).
- Independent relays for multiple equipment; compatible with contactors for high loads.
- Operational security: double confirmation and action history.
- Flexible connectivity: GSM, Wi-Fi, or LoRaWAN.
- Integration with MEDUSA to greater efficiency, optimize resources, and prevent events.
- Suitable for any type of production and species.
- Ease of configuration and handling.
- It represents the most cost-effective method to modernize your farm.



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