

SMART AQUACULTURE CONTROLLING STATION



PRODUCT FEATURES

HIGH QUALITY

Using sensors supplied by proven manufacturers from the United States, Europe, and Japan.

ECONOMY

Offer lower prices than imported solutions, convenient for large-scale deployment, comprehensive solution implementation, meeting the requirements of aquaculture industry development.

FLEXIBLE CUSTOMIZATION

Fine-tuned to meet different types of aquaculture products.

EFFECTIVENESS

Encourage Vietnamese technology products; improve productivity, quality and competitiveness of Vietnam's aquaculture industry in the era of the 4th industrial revolution.

TECHNICAL SUPPORT

- Smart and Innovative Technology Joint Stock Company (SITECH) is a team of highly specialized and experienced engineers, specializing in researching, designing, manufacturing, and providing smart aquaculture control equipments
- We provide high quality and market-proven solutions for environment monitoring and control devices for aquaculture at reasonable prices. We have a team of engineers to support maintenance and operation efficiently.



SPECIFICATIONS

DATALOGGER AND CONTROLLER

- ARM® 32-bit Cortex® - M4 CPU
- 48 MHz processor
- Transmit data via 3G/4G, LoRa, WIFI
- Support analog and digital signal inputs
- Compatible with environment sensors: pH, ORP, DO, NO₂, salinity, ...
- Control different devices: Oxygen aerator pumps, water pumps, water valves, ...
- Operated by solar energy
- Low power consumption.

SENSORS

- Operates according to chemical, optical, and electromechanical principles
- Integratable with sensors from different vendors
- Monitoring parameters can be changed flexibly
- High accuracy, less than 5% error

DATA ACCESS

- Access data on website and mobile applications
- Real-time notifications on website and mobile applications
- User interfaces can be customized according to user's needs
- Automatically control devices according to schedules.
- Data is visually displayed in the form of maps, graphs and tables
- Access data on both computers and smartphones.

REMOTE OPERATION

- Change frequency of data sampling
- Change warning thresholds
- User interfaces and business processes can be customized.

ENERGY

- Solar energy provides power for the equipment, ensuring safety when placing the equipment on the pond
- Backup power supply for up to 30 days
- Solar battery life over 15 years.

OPERATION CONDITIONS

- Working temperature: 0 °C to 60 °C
- Humidity: 0 - 95% RH.

