



## Ocea Control

- Integrated monitoring and alarm system
- Simple user interface
- Trend curves and event log
- Support for the majority of sensor types
- Cost-efficient and operational reliability

# Ocea Control

Environmental monitoring, alarms and oxygen control



Feed barges  
 Feed systems  
 Workboats  
 Plastic cages  
 Steel cages  
 Mercatus software

Accessories  
 and special equipment

Ocea Control is an industrial system for total control of the parameters influencing production. The system is designed to control, report and log any kind of information which can be monitored by a sensor. Both environmental and operational signal can be supervised, and the system integrates seamlessly with Ocea FeedStation®. Typical applications for the system are environmental monitoring at sea sites, alarm systems to warn users about operational problems and oxygen control in hatcheries.

The main components of the system are an industrial PLC and computer software, while a wide range of adaptations and options are available to our clients. The core operations of alarms, monitoring and valve control are completely independent of computers, adding security and redundancy from potential computer problems. Reports, graphs and logs provide the user with a detailed history of events while administration and use of the system has been made as simple as possible using intuitive user interfaces and simplified operations.

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Aquaculture solutions

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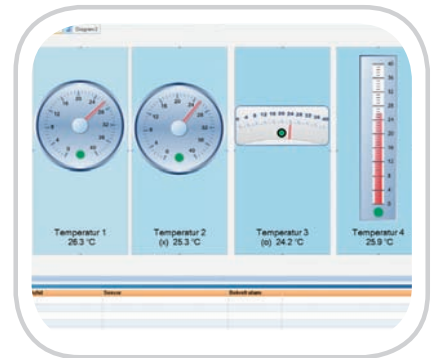
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### Product specifications

- The controller has a local display and keypad allowing access to measurements and settings without using the computer.
- The critical parts of the system are completely independent of computer operations.
- Several controllers can be linked together for redundancy and to allow local control of different geographical areas.
- Various IO modules can be combined and tailor-made to customer requirements.
- The system is fully expandable if the client requires changes.
- All system components are easily replaced without additional programming needed.
- Documentation according to CE standard including electrical drawings is delivered with the system.
- Ocea delivers a complete and fully tested solution.

### Environmental station

- May be positioned near cages
- Radio or hardwired communication with PC
- Low maintenance, optical oxygen probe
- Current meter with velocity and direction
- Accurate temperature probe
- Historical datalog integrated in the PLC
- Optional GPRS connection for remote monitoring



### Alarm system

- Critical alarms are sent as text messages
- Detailed information about alarm sensors are sent to the operator
- Backup alarms are sent to alternate destinations if the initial message is not received
- The operator can remotely request status information via mobile phone
- Alarm operations have extra battery supply
- Existing sensors may be connected
- Optional alarm redundancy system



### Oxygen control

- Continuous monitoring of O<sub>2</sub> levels
- Individual valve control for each tank
- Simple O<sub>2</sub> sensor calibration procedure
- O<sub>2</sub> levels and valve status observed by software
- Full O<sub>2</sub> control is maintained also without a computer connected
- PID algorithms help stabilize the O<sub>2</sub> levels in the tanks
- Certified and pressure-tested valve cabinets



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