

OxyGuard[®] Pacific



Complete Process Control System for Aquaculture



for Small Systems



for Large Systems



for Sea Cages



for Fish Transport

1.

Pacific for Small Systems

Pacific is a measuring, monitoring and control system designed for use in fish farms.



Up to 20 probes:
Wired
Wireless

P-NET
API - Interface
TCP/IP/Modbus
USB
etc.

Combination of
relays and digital
inputs/outputs
(up to 30 of each)

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It is both multi-channel and multi-parameter, and forms a modular small size complete system. A member of the Commander series of equipment, it can be used both as a stand-alone system and as a part of a larger Commander Pacific system.

Other components for more functionality

OxyGuard Digital probes (OD): DO optical, Salinity, TGP, O₃, CO₂

OxyGuard Analogue probes (OA): DO, PH, Redox (ORP), CO₂, Temp

Pacific Main / Pacific Combi

- 4 OA probes
- 2 OD probes
- 6 on/off inputs and/or outputs
- 6 output relays

Pacific Main XD / Pacific Combi XD

- 3 OA probes
- 4 OD probes
- 6 on/off inputs and/or outputs
- 6 output relays

Pacific Main AI / Pacific Combi AI

- 2 OA probes
- 2 OD probes
- 5 on/off inputs and/or outputs
- 5 output relays
- 4 mA inputs/outputs

Pacific I/O

- 2 OD probes
- 10 on/off inputs and/or outputs
- 10 relays

Pacific Probe

- 8 OA probes
- 2 OD probes

Pacific Probe Unit XD

- 14 OD probes

Pacific Analogue (4-20 mA)

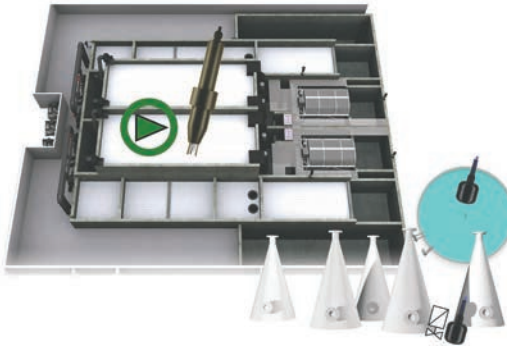
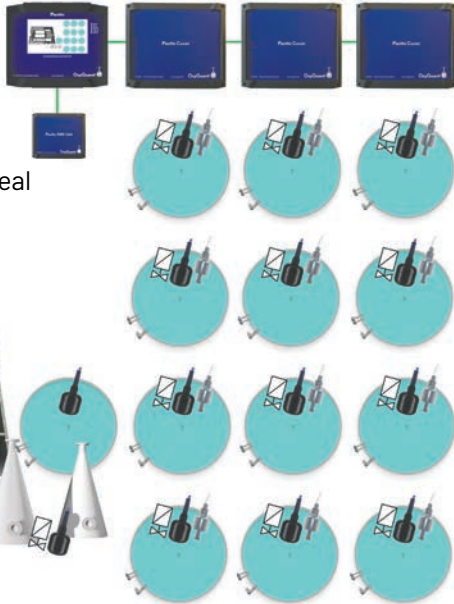
- 2 OD probes
- 8 mA inputs/outputs for active and passive devices such as sensors, flow meters, etc., or control of valves, pumps, etc.

Complete system with software and SMS

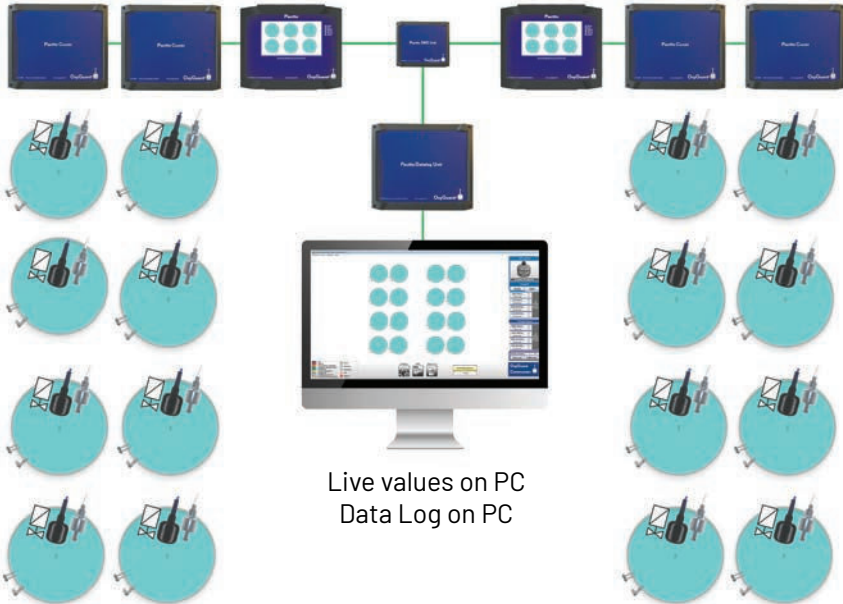
Combi Units with temperature probes, water level sensors and valves



Live values on PC real



2 independent Pacific systems with the same software











Live values on PC
Data Log on PC

Commander Software



Total Control

You can zoom in on any part of your farm to see full details of every measurement, pump, valve, etc. and keep full overview while you do so!

-  OK
-  Alarm
-  Warning
-  Oxygen Dose
-  Manual
-  Disabled
-  Calibration Error
-  Communication Error



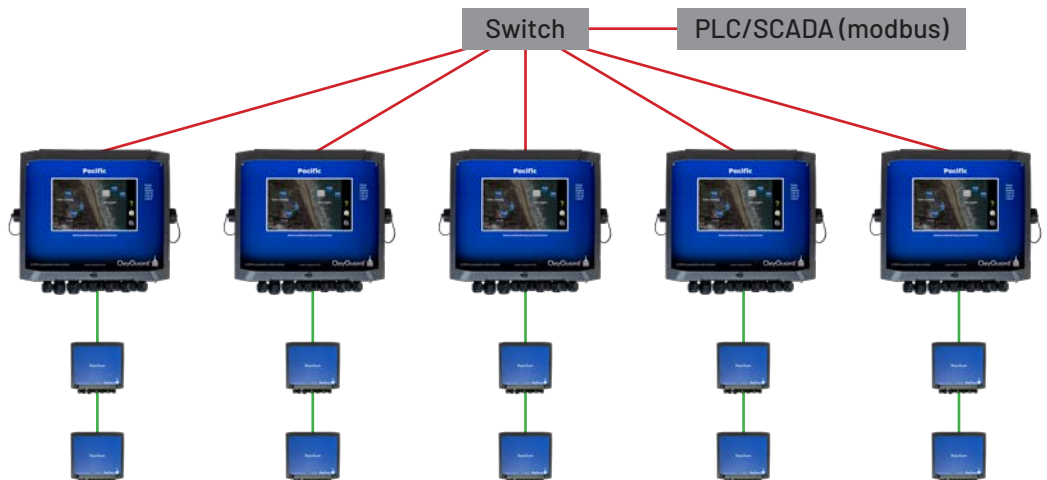
Total Overview

Your whole system appears on the screen of your PC. A colour code shows you what's happening. Red indicates that there is an alarm. It takes you less than a second to check your entire farm!

Get alarm notifications **ON THE GO!**

You can get alarm notifications via text message (SMS) and "communicate" with your system by responding to it!

Your own PLC/SCADA system



Pacific Web Interface

OxyGuard's new web interface software makes Pacific systems more versatile and even easier to use.

The new Web Interface software makes it very easy to access a Pacific. The owner of a small farm can use any local computer or even smartphone anytime, anywhere to assure himself that all is well.

Large installations can be divided into sections, so that staff "on the ground" can know when something nearby needs attention.

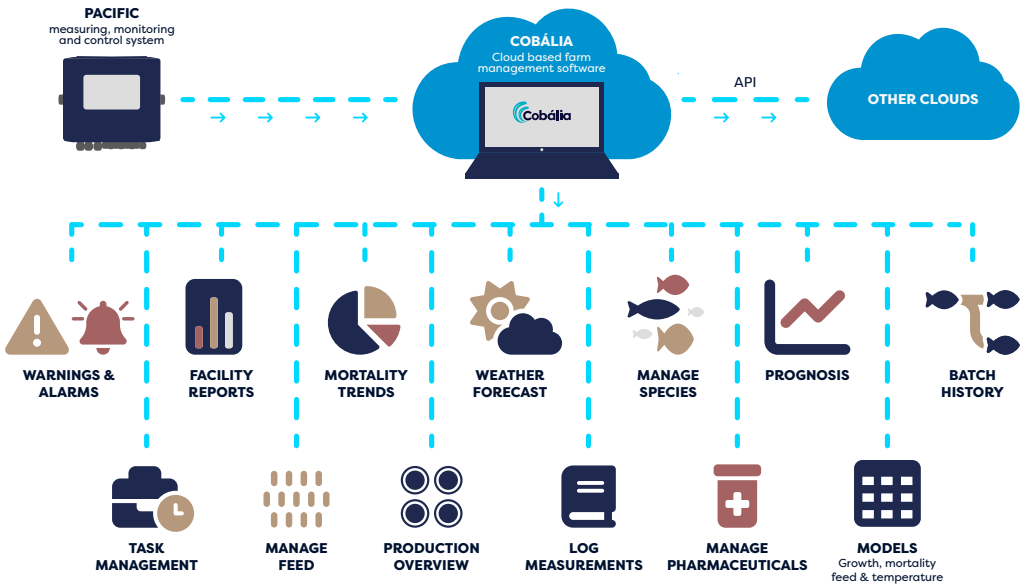
By logging in to the Pacific Web Interface you can:

- See the overview of your system
- Details for every probe
- Log and Graphs
- Change system configuration



Cobália

Cloud-based software for farm data, planning and production control. Integrate feeding, biomass, planning and reporting across sites in one aquaculture platform.



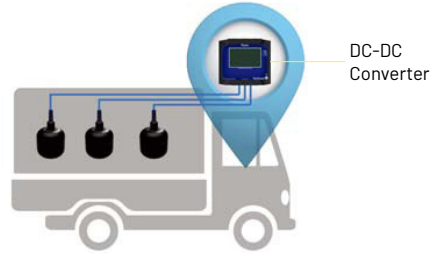


Pacific for Fish Transport / Convoy Pacific

Convoy Pacific is the system for transporting live fish. It can be used for both vehicles and boats. Pacific Convoy is very versatile and is individually customised to fit your needs. Below are 3 examples of different system combinations. Keep in mind that these are just examples and that your system can be put together differently.

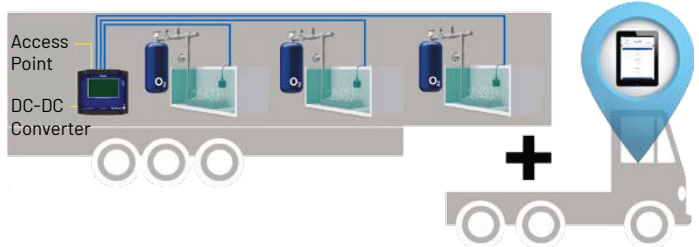
Example 1: Monitoring

This system consists of probes measuring dissolved oxygen (DO) and temperature and a Pacific Main Unit (placed in the cabin) monitoring the conditions.



Example 2: Monitoring and Control

This system consists of DO probes and a Pacific Main Unit (placed under the tanks) monitoring and controlling the DO level and injecting oxygen when conditions are critical. Pacific Main Unit is connected to the access point establishing a local network. You can keep an eye on what is happening by using Pacific Web Interface on the tablet in the cabin. This type of system without wires gives a great advantage as the installation can be easily removed.



Example 3: 2 systems in 1

There are 2 systems with monitoring and control. Both systems are controlled from the Main Unit placed under the tanks on the truck. If you want to have two system that are independent from each other you can replace the Combi Unit (placed under the tanks on the trailer) with a Main Unit.

