Keep**Pulse**

Remote and real-time oxygenation control for maximum efficiency.

KeepPulse optimizes oxygenation in aquaculture operations through real-time remote regulation of oxygen flows. It analyzes key variables to optimize oxygen supply in each cage, enabling monitoring from a centralized platform. It also detects anomalies in real time, sending alerts and generating detailed reports to support operational decision-making.

Operating Conditions

Maximum working pressure	150 psi	(10.3 bar)
Minimum recommended pressure	40 psi	(2.8 bar)

◆ *Values defined based on the components used in the line, such as valves, sensors, and hoses.*
◆ *Generated flows and pulse frequency depend on the specific configuration of each installed unit, variables that respond to the particular setup.*

Features

» **Remote, real-time dosing.**
Precise adjustment and digital activation of oxygen flow.

» **Automatic calculation of O_2 metabolic requirements.**
With preloaded curves based on average fish weight, number of fish, and water temperature.

» **Remote and centralized supervision.**
Monitoring from a digital platform.

» **Fault detection and automatic alerts.**
Sends notifications for timely response.
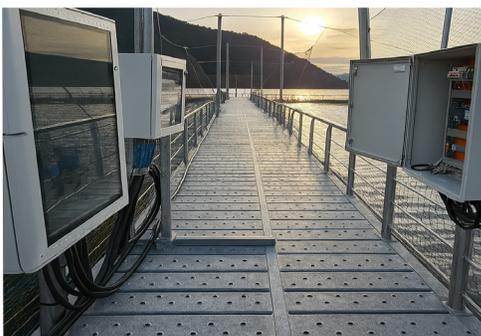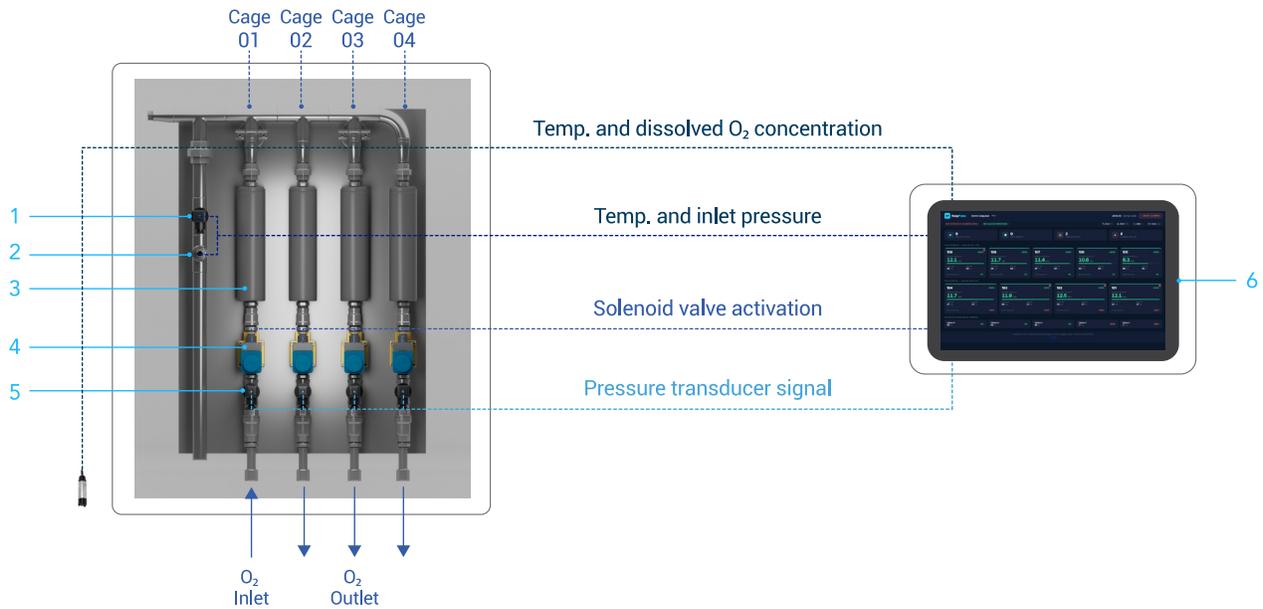
» **Traceability and data.**
Reporting of oxygen consumption and critical system variables.

» **Homogeneous diffusion.**
Controlled pressure pulses enabling uniform oxygen injection throughout the cage.

KeepPulse
System Diagram

1	Pressure transducer	4	Solenoid valves
2	Temperature sensor	5	Pressure transducer
3	Flow limiter	6	PLC monitoring and control panel

Cage 01 Cage 02 Cage 03 Cage 04

Temp. and dissolved O_2 concentration

Temp. and inlet pressure

Solenoid valve activation

Pressure transducer signal

1
2
3
4
5

6

O_2 Inlet

O_2 Outlet

Integration with existing infrastructure.
Compatible with multiple systems.

Keep**Pulse**

1	2	3	4	5
Cubox HD 16, 32 or 64 L/min for tanks and pre-smolt systems	**Keep** 30 - 45 - 90 kg/h O_2	**Upwelling Generator Diffuser**	**Microbubble barrier**	**Seabed remediation**

for aquaculture sites