

Dr.Oxygen

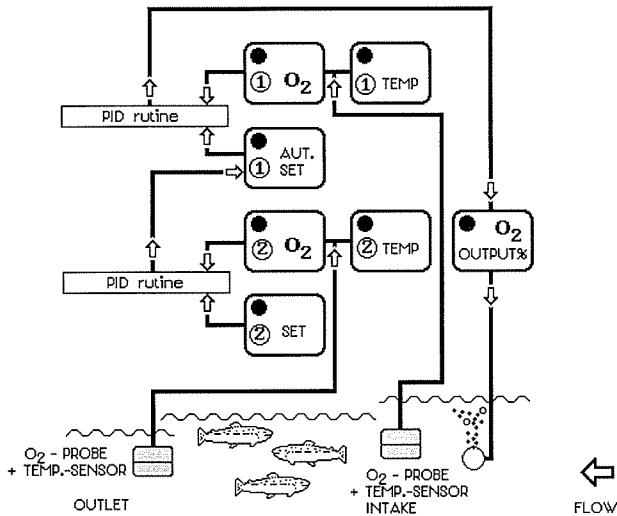
OXYGEN - CONTROLLER



- Measuring of oxygen tension and temperature on 2 sites
- Shows oxygen tension in mg/l, % saturation and IDEAL
- Controls supply of oxygen in the inlet on the basis of the requirement at the outlet
- Build-in datalogger - data can be transferred to a personal computer
- Communication-port for remote control by PC, optionally through telephone

Adjustment to oxygen tension ideal for the fish

The ideal oxygen tension for fish at any given time depends on the temperature. The controller automatically takes care of this, adjusting the setpoint for the concentration in mg/l, to suit the temperature. A figure of 100 is the ideal tension at a given temperature. Figures of 50 and 200 respectively are half and twice the numbers of milligrammes per litre required.



Indirect controlling of the oxygen tension at the outlet

Dr. Oxygen measures the oxygen tension at the outlet. A special PID regulation routine calculates a new SET point on the basis of the requirements at the outlet, and this controls the oxygen supply. The oxygen tension at the inlet is measured after the water has been aerated. This also means that natural changes in tension in the water are immediately included optimally and utilized, with minimum oxygen consumption and minimum variations from the desired tension.

Alarm functions

Dr. Oxygen can be set to give alarms at too high and too low IDEAL oxygen tensions and temperature levels in the inlet water.

In Case of Power Failure

Time/date and all data stored in memory are backed up by on-board battery.

Operation of pumps and supply of oxygen

Dr. Oxygen has relay terminals for two oxygen valves and two pumps, allowing partial loading and thus reducing energy consumption.

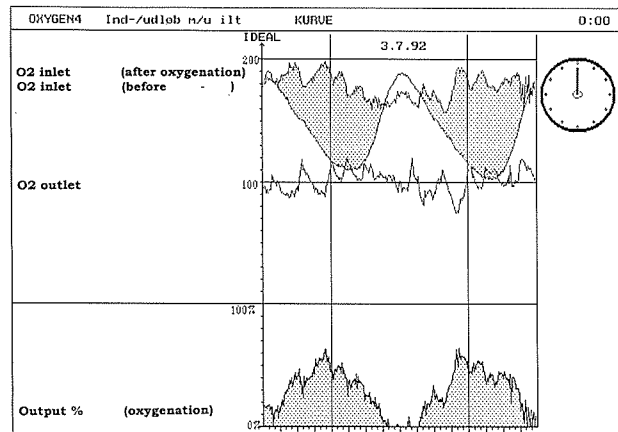
Dr. Oxygen supplies oxygen "continuously variably" via time modulation with self-optimizing cycle times.

Control of an aerator

Dr. Oxygen has a relay terminal controlling an aerator. The aerator is started when oxygenation is required.

Data logging

Dr. Oxygen stores all measurements, alarms and any altering of values. The last 4-10 days are always retrievable. It has a facility for browsing the data via the display. There is also an easy way to make a search on high and low values.



Communication

Using a PC:

- Transfer the logged data, convert these to graphics. Any irregularities will be clearly displayed.
- Great survey over a number of units, with the possibility of making all necessary operations by remote control.

An optional SPEECH-PROCESSOR expands the possibilities:

- Automatic alarm calls informs in clear speech.
- From a telephone you can perform remote control. All operations are confirmed in clear speech.