

# IFF PROBE XB4-S

A submersible probe for measuring the amount of dissolved oxygen in water



## Effective and easy measurement at fish farms

This probe consists of a stainless-steel head with the option of a replaceable sensor (CAP), a body with integrated electronics and a durable cable. Optical oxygen probes are distinguished by their extremely long service-life with minimum calibration requirements. The silicone membrane means that XB4-S probes also have much higher reaction-capabilities than competitive probes with Teflon elements.

## Advantages

The XB4-S probe is crucial from the aspect of energy savings linked to the operation of the bellows and aeration of the tanks. This type of measurement ensures the optimum concentration of dissolved oxygen in the water depending on the species of fish being farmed.



Highly-durable sheath intended for fresh water and salt water application



Measurements taken independently of water currents around the sensor



Robust and easily removed sensor – CAP



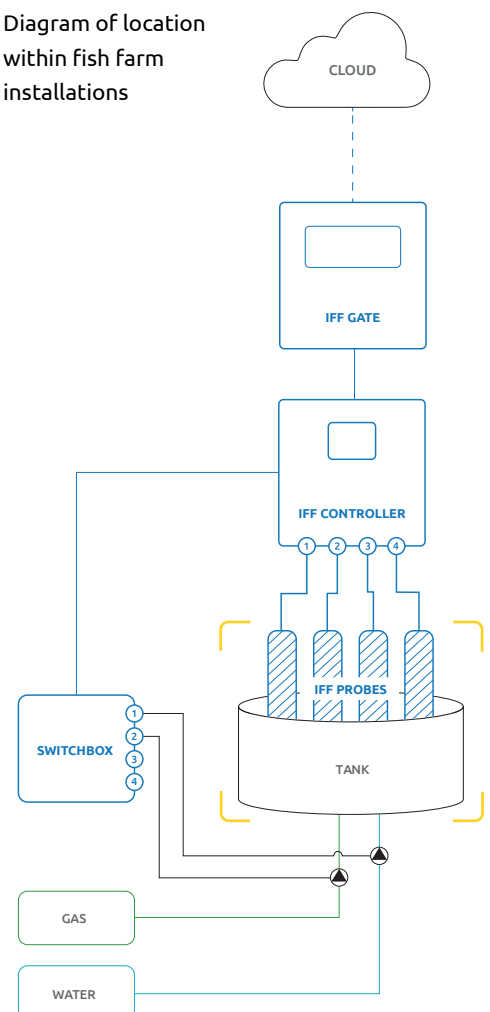
Minimum operating costs



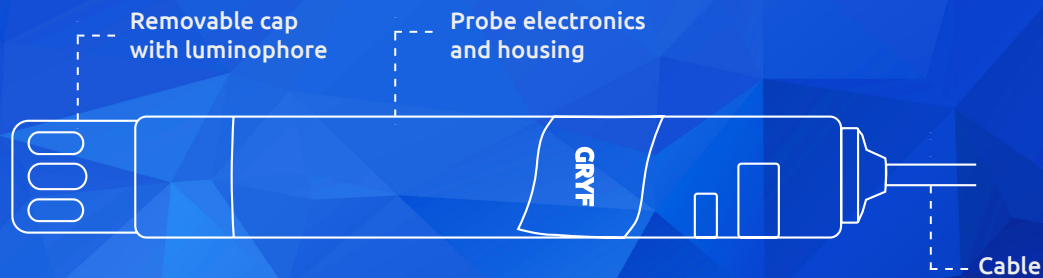
Not sensitive to the presence of H<sub>2</sub>S or CO<sub>2</sub> gas

## Structure

Diagram of location within fish farm installations



## System includes



### Basic technical parameters

Power supply	external, 18 ÷ 35V DC/ 30 mA
Signal output	4 ÷ 20 mA + MODBUS
Oxygen concentration measuring range	0,0 ÷ 200,0 %, 0,00 ÷ 20,00 mg/l
Oxygen concentration measuring accuracy	1 % of range; ± 1dig.
Response Time T98%	< 60 s
Temperature compensation	automatic 0 ÷ 50 °C
Temperature measuring range	0 ÷ 50 °C
Temperature measurement accuracy	± 0,2 °C; ± 1dig.
Temperature sensor	Ni 1000
Measurement principle	oxygen dependent luminescence quenching
Protection rating	IP 68
Pressure range	0 to 3,5 bar (0 ÷ 35 m water column)
Operating temperature range	0 ÷ 50 °C
Storage temperature range	-20 ÷ 70 °C
Dimensions (probe)	270 x 36 mm
Dimensions (box)	320 x 200 x 75 mm
Material	stainless steel 1,4404, PVC-U black, PUR (cable)
Weight (probe + 10m cable)	1,7 kg
Oxygen consumption	none
Required flow	none
Maximum immersion depth	30 m



## GDM - Mobile measurement system

Probe can be connected to your mobile phone and measure anywhere

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