

IFF PROBE XB3-S

A submersible probe for measuring water ORP



Effective and easy measurement at fish farms

The XB3-S probe measures oxidation reduction potential. ORP is an indicator of the proportion of oxidation and reduction substances in a solution. The probe consists of a stainless-steel head with the option of replaceable electrodes, a body with integrated electronics and a durable cable. Measuring water ORP is an important water quality parameter and is appropriate in cases combining aquaculture and aquaponics, when certain species of plant require specific (or suitable) conditions for growth.

Advantages

If the ORP probe is located at the inflow, it is also capable of detecting intermittent water pollution. Monitoring ORP dynamics in the fish farm's biological filter environment is of particular importance. Just like the XB2-S probe, the XB3-S probe uses an external gel electrolyte supply tank and a multi-level reference system, which prevents the probe from being poisoned by sea water and extends its service life.



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



Protection of electrodes against growth of biological encrustation



Long service life



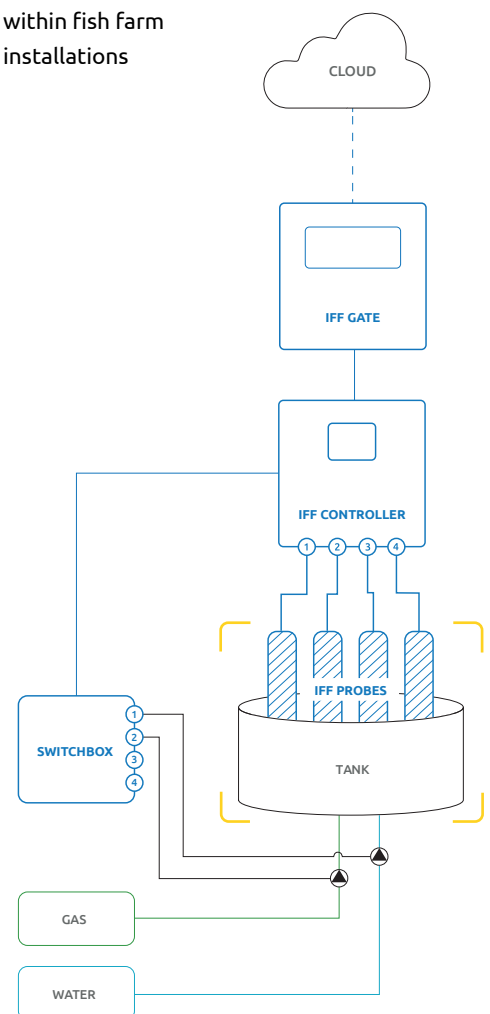
Minimum operating costs



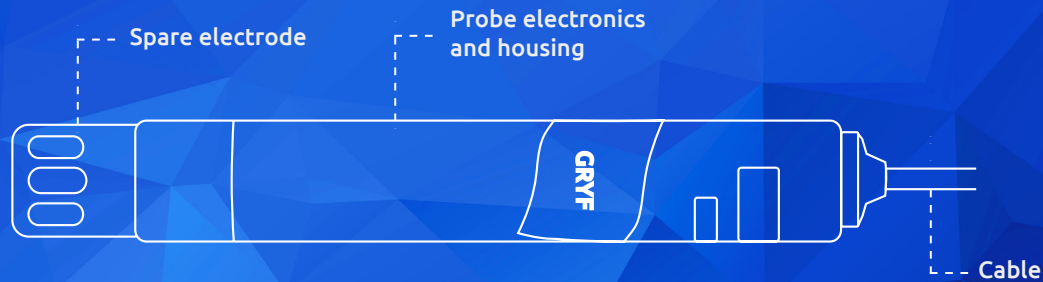
Nano-filter preventing growth of microorganisms

Structure

Diagram of location within fish farm installations

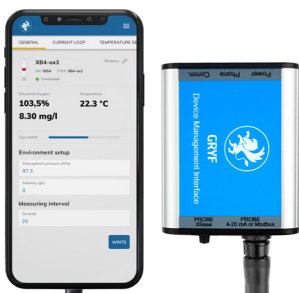


System includes



Basic technical parameters

Power supply	external source 18 ÷ 35V DC/ 30 mA
Signal output	4 ÷ 20 mA + MODBUS
Temperature measuring range	-20 ÷ 120 °C
Temperature measurement accuracy	± 0,2 °C; ± 1 dig.
Voltage measuring range	-1200,0 ÷ 1200,0 mV
Voltage measuring accuracy	± 0,01 %; ± 1 dig.
Input resistance for ORP sensor	10 ¹² Ω
Operating temperature range	0 ÷ 50 °C
Storage temperature range	-20 ÷ 70 °C
Pressure range	0 to 1 bar (0 ÷ 10 m water column)
Temperature compensation	automatic -10 ÷ 110 °C
Protection rating	IP 68
Dimensions	270 x 36 mm
Dimensions (box)	320 x 200 x 75 mm
Material	stainless steel 1,4404; PVC-U black; PUR (cable)
Maximum immersion depth	30 m



GDM - Mobile measurement system

Probe can be connected to your mobile phone and measure anywhere

www.iffman.com