

IFF PROBE XB1-S

A submersible probe for measuring water salinity at fish farms



Effective and easy measurement at fish farms

The probe consists of a stainless-steel head with PVC sheath, a body with integrated electronics and a durable cable. The XB1-S probe measures the current between electrodes and converts it to specific electric conductivity values. The specific conductivity value shows how much dissolved salt is in the solution.

Advantages

Measuring water salinity is an important water quality parameter. Measurements obtained using the XB1-S probe mean that the optimum concentration of salt can be maintained in the water depending on the species of fish being farmed. The probe is also suitable for highly-polluted and highly-conductive water due to the four-electrode system.



Electrodes manufactured from highly-durable carbon composite



Protection of electrodes against growth of biological encrustation



Also suitable for use in polluted solutions



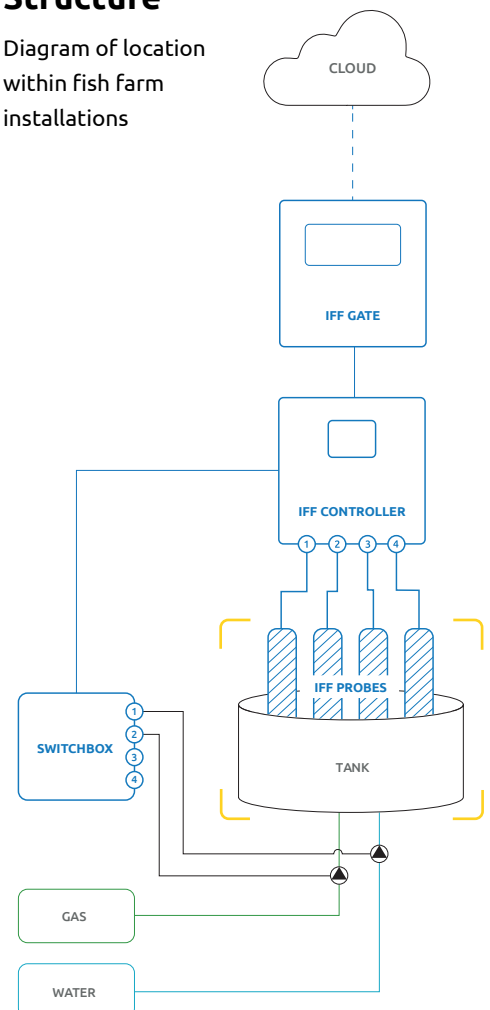
Minimum operating costs



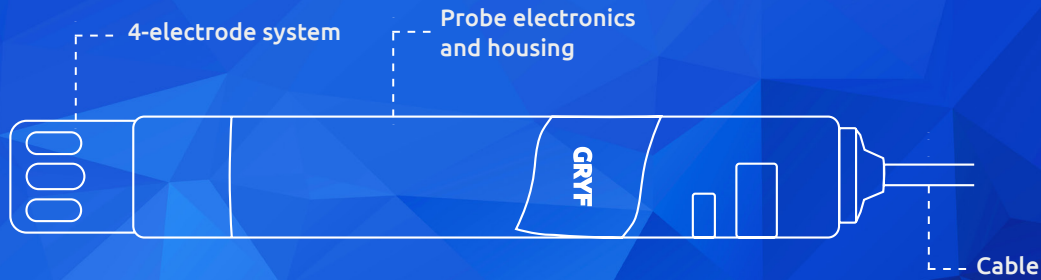
Highly durable sheath

Structure

Diagram of location within fish farm installations

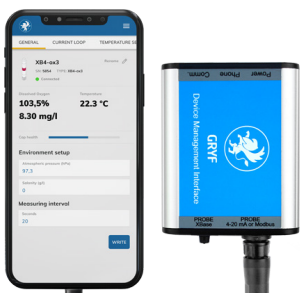


System includes



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; ± 1dig.
Conductivity measuring range	0,00 ÷ 20,00 (30,00) µS/cm 0,0 ÷ 200,0 (300,0) µS/cm 0 ÷ 2000 (3000) µS/cm 0,00 ÷ 20,00 (30,00) mS/cm 0,0 ÷ 200,0 (300,0; 500,0) mS/cm
Conductivity measuring accuracy	± 0,5 %; ± 1dig.
Temperature compensation	automatic -5 ÷ 110 °C
Temperature compensation constant	0 ÷ 3 % / K, according to EN 27 888
Reference temperature	25 °C
Concentration measurement range	0 ÷ 300 g/l or 0 ÷ 30 % (up to 500 mS/cm), 5 ranges
Salinity measurement range	0 ÷ 70 g/l; 2 ranges
Operating temperature range	0 ÷ 50 °C
Storage temperature range	-20 ÷ 70 °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; 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

Specialists in the development and manufacturing of professional electronic equipment for 30 years.