

# 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



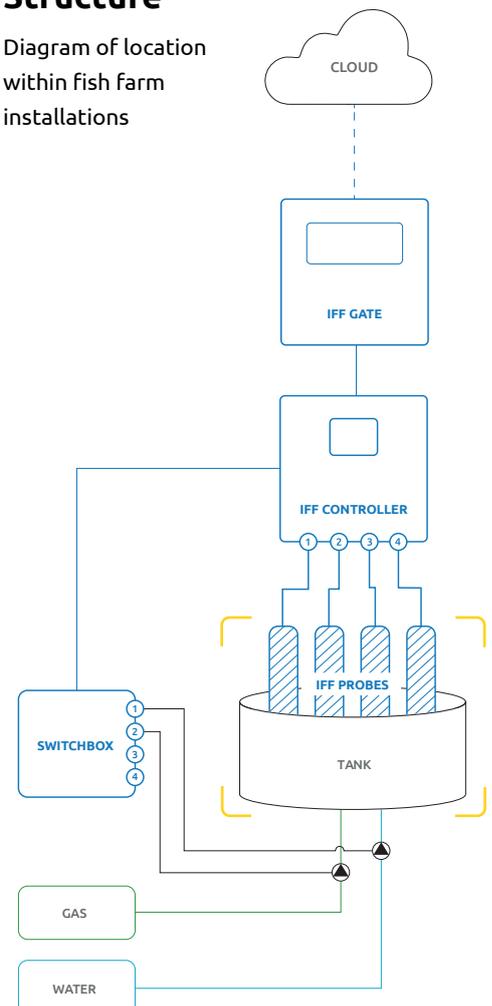
Minimum operating costs



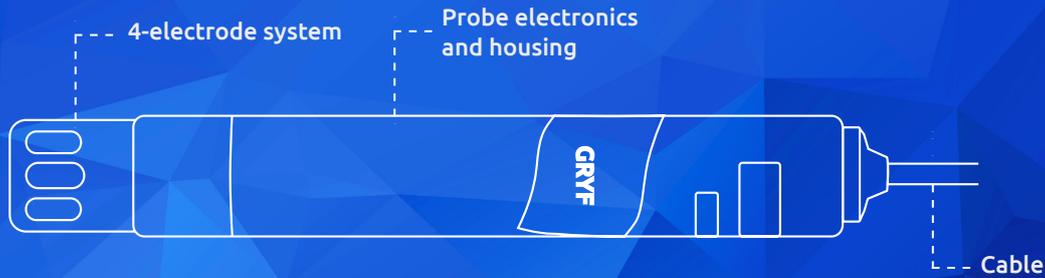
Highly durable sheath

## 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](http://www.iffman.com)