

# Environmental, water level and conductivity sensors



Temperature Sensor



## Temperature - the foundation for feeding and growth models

There are two different temperature sensors: a separate sensor/stand-alone sensor for connecting to AKVAconnect or integrated in the optical oxygen sensor for using in AKVAconnect.

Temperature Sensor	Separate	Inside
Resolution:	+/- 0.1° C	+/- 0.1° C
Accuracy:	+/- 0.5° C typical	+/- 0.1° C typical
Operating temp.:	0-50° C / 32-122°F	0-50° C / 32-122°F
Depth rating:	30m ltd. by cable	210m ltd. by cable
Housing:	Bronze	Polyethen
Cable:	30m urethane	30m urethane



Oxygen Sensors



## Oxygen – an important factor for growth and fish welfare

The oxygen sensors are with optical reading which reduces the need of calibration and maintains high accuracy and operates with no drift over long-term deployments. On the Oxygen RDO all this information is stored in the replaceable CAP tip. The optical sensors have a fast response and maintains stability, even in dynamically changing conditions.

Oxygen Sensors	RDO	Standard
Accuracy:	+/- 0.1mg/L 0-8mg/L +/- 0.2mg/L 8-20mg/L +/- 0.10% 20-50mg/L	+/- 0.1° C typical
Operating temp.:	0-50° C / 32-122°F	0-50° C / 32-122°F
Depth rating:	210m ltd. by cable	300m ltd. by cable
Housing:	Polyethen	Polyethen
Cable:	10 or 50m	10 or 50m



Current Sensor



## Environmental current knowledge prevent feed waste

An important parameter is the current or water flow when you feed but also to know your site. We can offer two types of current sensors, the Tilt sensor that gives current speed in one layer and the Doppler current profiler that gives you speed and direction at three different levels in the water column.

Current Sensor	0-50cm/sec	0-100cm/sec
Accuracy:	+/- 0.1cm/sec	+/- 0.2cm/sec
Measurement range:	0-50° C / 32-122°F	0-50° C / 32-122°F
Measuring principle:	Electronic tilt sensor	Electronic tilt sensor
Power consumption:	75mA	75mA
Depth rating:	Polyethen	PE/alu. or SS wings
Housing:	Acrylic/Pom/Alu.	Acrylic/Pom/Alu.
Cable:	30m Polyethen	30m Polyethen



Multi Sensors  
3 or 5 parameters



## Full environmental overview - know your site

Measure and record water pressure, conductivity, and temperature with the Aqua TROLL 200, or conductivity and temperature with the Aqua TROLL 100. Unique conductivity cell allows for a wide, accurate measurement range in a narrow diameter instrument.

Multi Sensors	Troll 100	Troll 200
Supported parameter:	Actual conductivity, specific conductivity, and temperature	Actual conductivity, specific conductivity, temperature, water depth/pressure
Conductivity:	+/- 0.5% +1uS/cm typical +/- 1% max range	
Temperature:	+/- 0.5° C	
Housing:	Titanium body and sensors, Delrin nose cone, and PVC conductivity cell	



Multi Sensor  
12 parameters



The new Multi Sensor is a compact instrument that houses six water quality sensors and measures 12 parameters: • Actual and specific conductivity, salinity, total dissolved solids, resistivity, and density • Dissolved oxygen • ORP • pH • Temperature • Water level and water pressure (absolute).

Multi Sensor Troll 400	
Supported parameter:	Actual conductivity, specific conductivity, dissolved oxygen, pH, ORP, temperature, water level/depth/pressure (absolute)
Oxygen:	+/- 0.1mg/L 0-8mg/L +/- 0.2mg/L 8-20mg/L +/- 0.10% 20-50mg/L
Conductivity:	+/- 0.5% +1uS/cm typical +/- 1% max range
ORP:	+/- 0.5mV
pH:	+/- 0.1 pH unit
Temperature:	+/- 0.5° C
Housing:	PVC, acetal, titanium, 316 stainless steel