



Intellisonde RM (River Monitor)

**Cost effective and accurate environmental monitoring.
No chemicals or membranes.**

The Intellisonde RM was developed to provide cost effective and accurate, multi parameter, water quality monitoring of river water both on intake to various processes and downstream from discharges.

The technology is based upon our patented sensor platform and sensors, the sensors are more robust than traditional technologies and require no reagents or membranes. The units require less cleaning and intervention than other instruments with intervention periods up to 8 weeks.

Operational costs are less than chemical alternatives.

The RM has a built in data logger with easy access to the data by GPRS or other industry standard protocols, such as Modbus/SCADA.

Unique Sensor Platform

- Robust, long life, long term deployment. Long term sensor use, up to 12 months between sensor changes.
- Multi parameter at lower capital and operational cost.
- No recalibration between sensor changes.
- Longer intervals between cleaning.

Power Requirements

- RM requires mains electricity 24VDC, rated for continuous use.
- Submersible Pump requires 240V, will handle solids up to 3mm diameter, 3metres immersion depth, and has an integral strainer, IP68 Rated Enclosure.

Communications

- GPRS
- RS232/485
- Ethernet TCP/IP
- Modbus/SCADA
- Voltage Outputs

Data Logging

- Up to 7 parameters measured and logged at intervals from 1/minute to 1/hour

Sonde Head Materials

- Peek, Stainless Steel

Operating Temperature

- -5 to +50C



Intellisonde RM Specification

Parameter	Performance
Dissolved Oxygen	0 to 100% saturation \pm 20%
Conductivity	0 to 100 mS/cm \pm 5%
pH	2 to 12 pH
Temperature	-5 to +50°C \pm 0.2°C
Turbidity	0 to 350 NTU \pm 0.5 NTU
ORP	+ 1.0 volt to -1.0 volt \pm 1mV
Ammonium ISE	Concentration Range 10^{-1} to 10^6 M (lower limits 0.02ppm) Temp 0 to +50° pH range 5 - 8