

Do You Pump Water into water courses, streams, culverts ?

The RDL TSS02 is a robust remote monitoring system for measuring silt/suspended solids in rivers, streams, culverts the TSS02 automatically warns clients via an SMS text and email when thresholds are breached.

All data may viewed graphically on our secure web bureau and downloaded to a CSV file for archiving.

The units are fully submersible, housed in a steel pvc wrapped open cage to protect against debris washed downstream while allowing the system to get a clear picture of the water, the unit has a ten metre cable back to RDL telemetry unit.

The sensors operate on the principle of single gap light absorption as a means of detecting the presence of suspended solids. The sensors utilize an infrared emitter to minimize colour effects and compensates for emitter variations due to temperature by measuring source brightness. The sensors incorporate self-cleaning optics via air or water jet. Response time is 90% of full scale in less than 60 seconds. Sensor drift is less than 1% per year. Operating temperature range is 0 to 65 degrees C. Wetted materials are epoxy, polyurethane, PVC, or 316 SS.



Specifications:-

Measuring Range 25L = 0 to 1,500 mg/l

Accuracy 25L = 5% of reading or 5 mg/l whichever is higher

Stability = 2% of reading

Repeatability = 2% of reading Sensor Check Automatic self diagnostics

Sensor Cable Length 10 meters or as ordered

Standard Ambient Temperature minus 20 degrees C to 70 degrees C

Modem

RDL configured modem with service provider roving sim

Minimum trigger level 1mg/l (recommended at 100 mg/l)

Maximum trigger level 1500 mg/l

Sampling rate 1 minute to 12 hours

Reporting rate 1 minute to 12 hours

(NB sampling & reporting rate has an effect on battery life)

Power 12vdc sealed battery @ 12milliamps

Battery gives 7-20 days continuous use before recharging dependant on trigger levels and sampling rate.



RDL Telemetry Unit:-

- Plastic IP67 rated case
- RDL configured modem with service provider roving sim

- Minimum trigger level 5mg/l (recommended at 100 mg/l)
- Maximum trigger level 1500 mg/l
- Sampling rate 1 minute to 12 hours
- Reporting rate 1 minute to 12 hours
- (NB sampling & reporting rate has an effect on battery life)
- Power 12vdc sealed battery @ 12milliamps
- Battery gives 6-20 days continuous use before recharging
- Battery recharging via standard 12v battery charger

Web Bureau:-

- Configure SMS text and email alarm thresholds on the fly, quickly and easily
- Graphically view all data
- Unlimited number of units can log into one domain address
- administer all units from one portal
- Configure users and administrators and allow access to specific units
- Secure storage of all data
- Download data at anytime in a standard csv format
- Event log of all generated alarms, logins, 'unit power ups'
- Add and remove alarm recipients easily



Field Operation

- Place unit in water course, *without falling in*
- Tie unit off to prevent it being swept away
- Place Telemetry Unit case on adjacent bank
- Open Telemetry Unit case and switch on
- Go to office (or use smartphone), login and start viewing data