

SECTION 82 MONITORING BUOY



Water Quality Monitoring of Sewerage Assets

Section 82 of the UK Environment Act 2021 requires sewerage undertakers to continuously monitor the quality of the receiving water upstream and downstream of their assets. The Section 82 monitoring buoys from OSIL provide real-time, automated water quality monitoring to assess the impact of discharges from assets and ensure regulatory compliance.

Equipped with advanced sensors and location-appropriate telemetry systems, the buoy systems provide early warnings for pollution or discharge events, with real time data relayed every 15 minutes to a dedicated, secure webpage (or directly integrated into client servers).

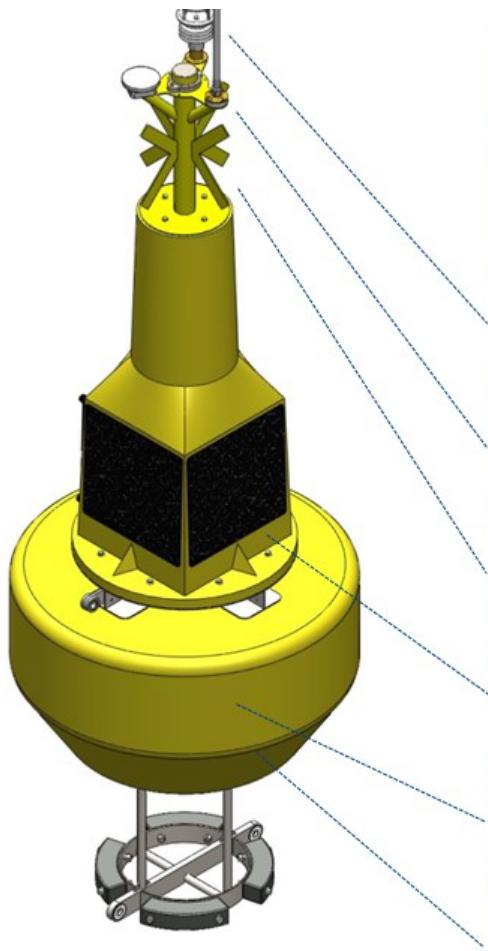
OSIL also offer the option of serviced systems (on a 12-month contract), eliminating an operational cost/concern for the end user.

Real time data every 15 minutes

- pH
- Temperature
- Turbidity
- Dissolved Oxygen
- Ammonia
- Nitrate
- Phosphate

All buoys are fitted with four solar panels, battery back up, navigation/warning lights (IALA Standard Lamp) and other markings as necessary (St Andrews cross, Internal Radar Reflector etc.).

A range of telemetry options are available (UHF/VHF, GSM, GPRS, Satellite), selected to suit both the location and application requirements. OSIL provide a complete data telemetry solution, including either desktop or web-based software packages to access the data.



Hull Specifications

1.2m diameter, 2.3m focal plane, 240kg weight, ~400kg reserve buoyancy (after payload), ballast weight 80kg

Hull Specifications

0.6m diameter, 1.0m focal plane, 45kg weight, ~60kg reserve buoyancy (after payload)

Meteorological Measurements

Wind speed/direction, atmospheric pressure, air temperature & humidity, solar radiation, precipitation

Telemetry Options

GPRS/GSM, AIS, VHF/UHF radio, Iridium

Aids To Navigation

Radar reflector, IALA standard lanterns, AIS transponder, On-station GPS trackers with watch circle alarms

Real-Time Data Delivery

OSIL data solutions, hosted services, direct to server & email

Water Quality Sensors

pH, Temperature, Dissolved Oxygen, Ammonia, Nitrate & Phosphate (additional parameters are available)

Wave / Current Measurements

Wave direction, height & period
Water speed & direction

Other sensors are available on request

FOR FURTHER INFORMATION PLEASE CONTACT:

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