

YSI Mini VPS

WATER QUALITY VERTICAL PROFILING SYSTEM

Why Vertical Profile Water Quality?

Profiling is the most cost-effective and accurate way to investigate the entire water column by collecting multiparameter data points at pre-programmed depths.

With YSI's automated profiling system, you'll never miss an event. 24/7 real-time monitoring saves time, money and the requirement for potentially high-risk event-based mobilisation.

The Vertical Profile System (**VPS**) has played a pivotal role in the decision-making process for the management of Algae Blooms, Turbidity Plumes and Dissolved Organic Matter concentrations in order to assist with pre-empting the water treatment process as well as understanding baseline seasonal fluctuations.

To complement the existing VPS fleet, Xylem has introduced the Mini (XMB) VPS to the portfolio which includes the [Pontoon, Fixed, Ocean and Drone Profilers](#).

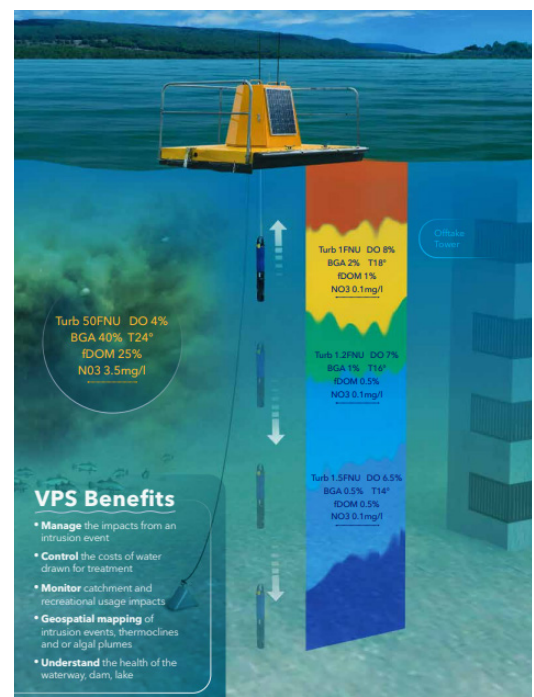
The Mini VPS has been designed for the shallower waterways, lakes and storages, allowing for a quick deployment via a 2-point mooring system.

Features include

- The Mini VPS utilises Xylem's robust automated mini winch
- Solar powered DC system
- Autonomous profiling range 1-20m
- Real-time data to the Cloud
- Secure modular design allows flexibility to add wide range of sensors
- Safer operation - no divers required
- Easily deployed and moored
- Lockable canopy

System specifications

- Buoy dimensions: 1,350mm outside diameter; 1,180mm tall
- Weight: 75kg
- Reserve buoyancy: 295kg
- Hull material: Rotationally moulded UV-stabilised virgin polyethylene. Closed-cell polyurethane foam filling (float section)
- Hardware material: 316-grade fittings
- Solar powered and 12VDC operation



- Editable setup file provided to set measurement routine and interval
- Supports 3G/4G protocol to the Cloud
- Enhanced version supports radio and satellite communication and SCADA integration

YSI EXO Water Quality Options

The Mini VPS utilises the robust and renowned YSI EXO2/3 series multiparameter sonde.

Parameters

- Temperature, EC, Salinity, Total Dissolved Solids (TDS)
- pH & ORP
- Turbidity & Total Suspended Solids
- Dissolved Oxygen
- Dissolved Organic Matter (DOM)
- Total Algae - Blue Green Algae, Chlorophyll
- Nitrate
- Rhodamine

Key benefits

- High-accuracy sensors with on-board memory
- Seamless integration into marine, estuarine, freshwater and ground water monitoring systems

Smart Sondes and Sensors

- Extremely versatile instrument, allowing the user to automatically configure a sonde with different sensors for different applications in minutes

Accuracy

- Tested in a variety of rigorous field conditions as well as lab conditions to ensure accuracy and response times

Monitor without interruption

- Entire suite of EXO Sensors are rugged and durable
- Wet-mateable connectors resist corrosion
- Isolated components prevent short circuits
- Welded housings and double O-rings prevent leaks
- High-impact plastic and titanium resists breaking
- Built-in anti-fouling systems protect data integrity

[Learn more about YSI EXOs series specifications](#)

System options

- Current speed/direction ADCP
- Air temperature, relative humidity, wind speed and direction, rainfall, barometric pressure, solar radiation

The new Mini VPS is a valuable addition to the current range of YSI profilers.

[Contact Xylem](#) to speak with a local application specialist.

