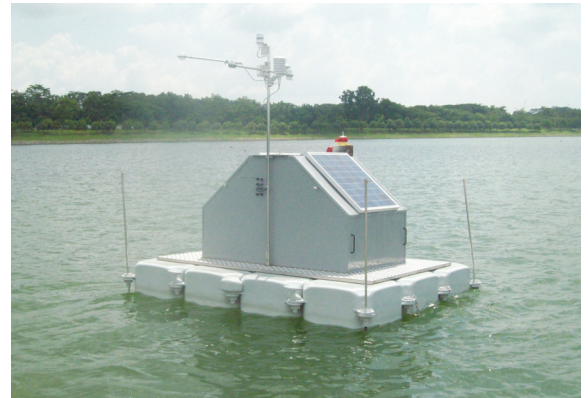


# Automated Profiler Platform

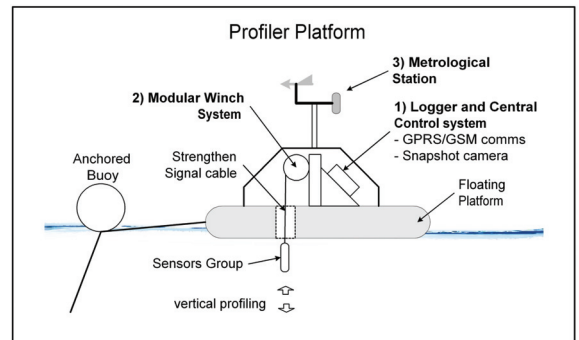
The Profiler Platform is a fully automated system designed for measuring vertical column of water qualities profile in reservoir, lake, etc.



The profiler can be easily towed and anchored at designated site(s) and configurable to interface with different water quality sensors with SDI-12 interface. It is also fully integrated with an optional on-board meteorological station and camera. Measured water profiling data are sent remotely via GPRS connection to a shore station.

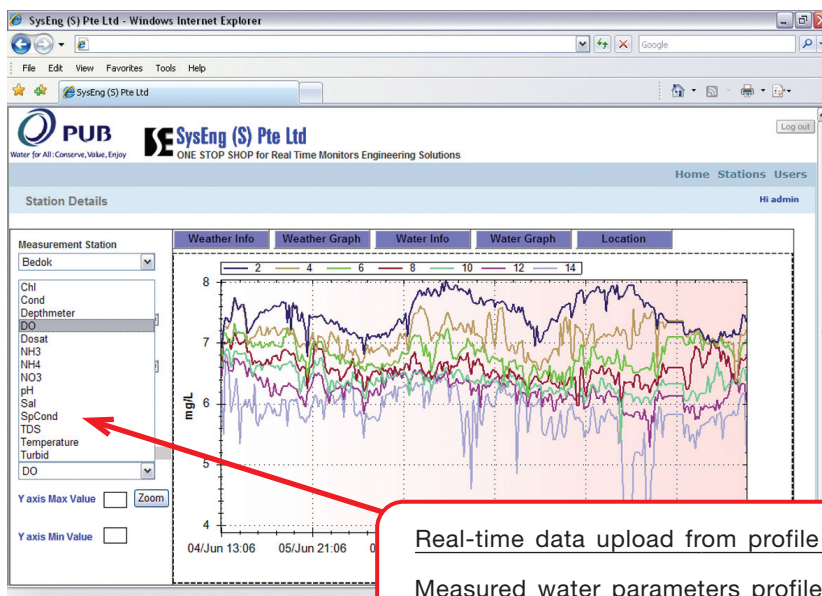
## Versatile Configuration:

- ✓ **Remotely Programmable Profile.** 20+ Meters depth. Multiple depth intervals. Up to 4 vertical profiles per hour (continuous operation).
- ✓ **SDI-12 Sensor(s) interface.** Configurable to integrate with different SDI-12 (or RS485) water qualities sensors, like **S::CAN, YSI, Troll**, etc. providing user integration to wide selection of sensors type or existing sensors.



## Real-Time Data:

- ✓ **Remote access.** All data (water qualities and meteorological) are sent immediately to shore station via GPRS/GSM technology.
- ✓ **Data Web-hosting service.** Our company also provides hassle free web-publishing of real-time profiler data together with on-site water sensors calibration and maintenance, to provide cost effective one-stop solution and good quality data experience to our customer.



Real-time data upload from profile and published on internet every 15mins

Measured water parameters profile: **DO, Turbidity, Chlorophyll, NH<sub>4</sub>, NO<sub>3</sub>, pH, Temperature, Conductivity.**

Derived water parameters profile: **DO saturation, NH<sub>3</sub>, Salinity, TDS.**

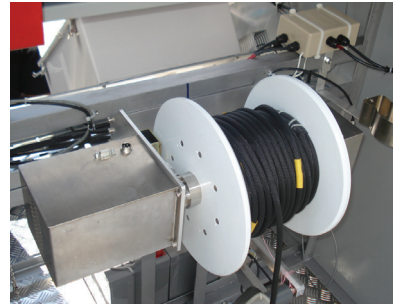
## Profiler Features

### Modular Winch Head Design:

✓ **Quick-Mount Design.**

Fast and easy installation or hot-swap within seconds! Only 1 lock screw!

✓ **High availability.** All mechanical moving parts are designed within the modular winch head. It is common that some usage wear and tear on moving parts are inevitable. With modular winch head design any mechanical related repair or maintenance can be carried out by quick hot-swapping to the alternate winch head, thus greatly minimizing any down-time.



### Easy Installation and Mobility:

✓ **Modular Components.** Float tanks, Main structure frame, Meteorological station and Winch head module, etc. can be easily assemble and disassemble for transportation.

✓ **Stable Towing.** Very stable platform enable “tow-launch” from ramps and towing to new/alternate deployment site(s) within lakes and reservoirs.

✓ **Solar Power.** Stand-alone power supply system.

### Superior Platform:

✓ **High Load Capacity.** Able to take 4 persons on-board.

✓ **Large Work Space.** Swing-up doors design, which open up to provide comfortable space for quick on-site calibration of water sensor(s). The front winch compartment with flip-up work desk (for calibration laptop or equipments) giving ergonomic work space.

✓ **Quality Floatation.** Using military-grade, maintenance-free float tanks with high resistance to sea water, oil base and UV.

