



Vertical Profiling System

FOR CONTINUOUS MONITORING

Why Profiling?

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 systems, you'll never miss an event and will reduce the time and money to monitor and react.

YSI Profilers are used for applications such as:



Selecting the right intake depth in a drinking water reservoir



Understanding hypoxic events



Detecting point- and non-point-source pollutants



Evaluating the thermocline or pycnocline in a system



Early detection of harmful algal blooms

▲ YSI Fixed Vertical Profiler

Profilers are compatible with all YSI multiparameter water quality Sondes equipped with depth sensors.



YSI.com/EXO



Every YSI Profiler is built to your specifications using environmentally-ruggedized components of the highest quality. Important advantages of profiling systems include:



Industry-Leading Technology

YSI's patented winch is rugged and non-corrosive, and ensures smooth and accurate lowering of the EXO sonde.



Data Delivery

Send data to a base station computer, while the web-enabled option posts data directly to a public or private web site. Several wireless data transmission options available.



Customizable Protocols

User-selectable sample intervals allow real-time monitoring to be customized to your needs.



SCADA Integration

Deliver your fixed profiler data to your existing SCADA, using TCP/IP with Ethernet connections or a MODBUS RTU for serial connections.



Rugged Build

NEMA4X enclosures protect critical components allowing you to operate in almost any environment.



Flexible Options

Explore meteorological sensors, different levels of training, or full service options to get the most out of your profiling system.



[YSI.com/Systems](https://www.ysi.com/Systems)

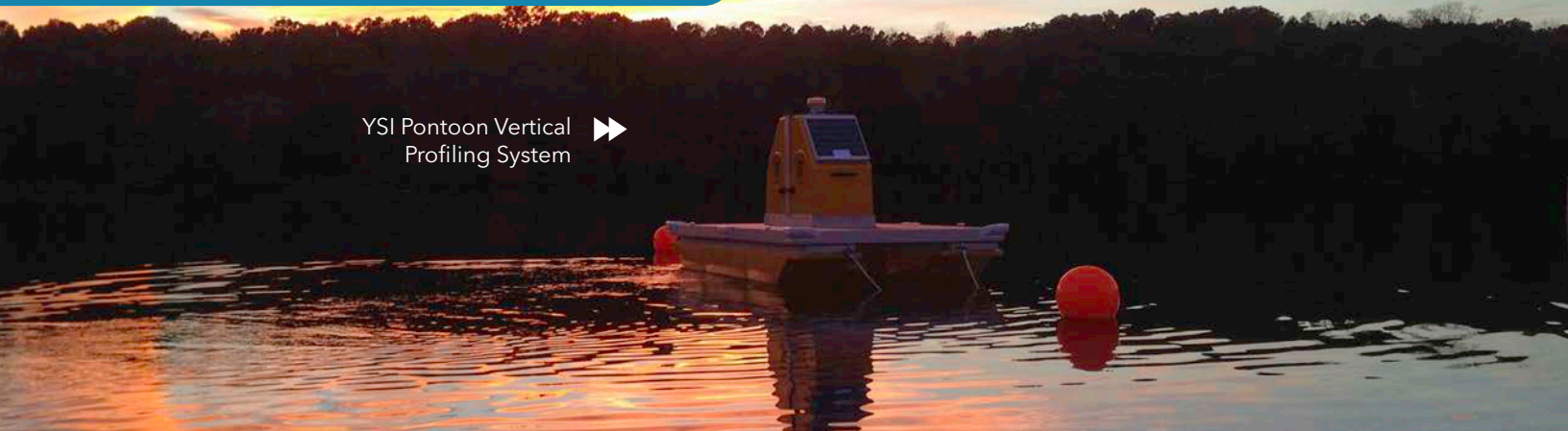
YSI Pontoon Vertical Profiling System ▶▶





Profiler Specifications

YSI Pontoon Vertical Profiling System ▶▶



Profiler Specifications

Setpoint Accuracy	±0.1 m
Minimum Profile Depth:	1 m
Maximum Profile Depth:	100 m
Profile Direction:	Up or down, parks at any depth
Reference Point:	Top and bottom reference points for software-controlled positioning
Warranty:	1 year (refer to sensors for individual warranty)

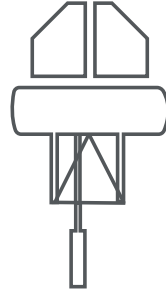
For more than 20 years we've been demonstrating how defensible data can change your world. From autonomous HydroMet monitoring systems to hardware installation, design, and maintenance - we have solutions to fit every scale and budget.

YSI Fixed ▶▶
Vertical Profiler



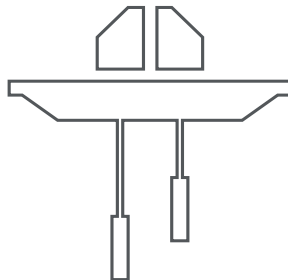
Buoy Vertical Profiler

- Use in coastal, high seastate environments
- Based on YSI's EMM2.0 buoy
- Deploy from vessel with a crane in at least 4 m of water
- Optional depth sounder
- Submersible enclosure



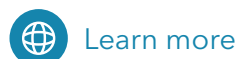
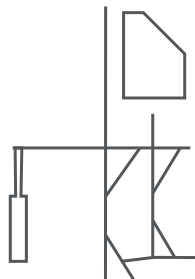
Pontoon Vertical Profiler

- Used in lakes, bays, harbors
- Can be deployed from a boat ramp in as little as 1.2 m of water
- Can be serviced on the water from a small boat
- Optional depth sounder



Fixed Vertical Profiler

- Ideal for drinking water reservoirs
- Attach to a bridge, building, or railing
- NEMA4X enclosure





Sensor Options

What sensors do YOU want?

YSI's system integration experts can help you to expand your vertical profiling station with other vendors' sensors. Here are some of the most compatible examples.



Li-Cor

 **Underwater Quantum Sensor**



R.M. Young

 **Marine Wind Monitor**



Airmar

 **WeatherStation® Instrument**



Campbell Scientific

 **Barometer**



Li-Cor

 **Spherical Underwater Quantum Sensor**



Aanderaa

 **Doppler Current Profiler**



Campbell Scientific

 **Temperature & Relative Humidity Probe**



Gill Instruments

 **Compact Weather Station**



Expert Service

Our experts can provide:



Installation

Harsh environments, remote locations, and sites accessible only by boats, airboats, helicopters, or swamp buggies won't stop our team. YSI technicians have construction and installation experience in the field including hardware installation, civil engineering work, and complete system implementation.



Maintenance

Maybe you need to keep the data moving, but don't have the people to do routine maintenance of your sites. No problem—we have instrument experts that can take care of calibration, site upkeep, communication verifications, system upgrades, and data quality control. Contact us to discuss the scope of your needs!



Commissioning

We can verify that your system is working, including helping you with data delivery to base stations or your SCADA system. Let our experts help your experts.



[YSI.com/Services](https://www.ysi.com/Services)



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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