Our vision is simple.

We devote our technology, time and talent to advance the smarter use of water. We look to a future where global water issues do not exist.
At Xylem, We Are Committed To Helping You Solve Your Toughest Water Resource Challenges.

Our technology saves you time
Our sampling, measurement and monitoring solutions provide accurate, high quality data and a low total cost of ownership.

Our reliability improves efficiency
We deliver reliable instruments and continuously develop safeguards and system checks to ensure that you obtain the highest-quality data as quickly as possible.

Our employees understand your challenges
Our staff has extensive field experience which helps them provide viable solutions and hands-on support for your monitoring challenges.

Together we can protect our most precious resource.
Together, we can solve water.
Our Analytical Brands

**Websites / Blogs**

- sontek.com
- waterlog.com
- wtw.com
- xylemanalytics.com
- ysi.com
- ysisystems.com
- blog.ysi.com
- exowater.com

**Connect With Us**

**Facebook**
- /sontekysi
- /waterlog.ysi
- /myysi

**Twitter**
- /waterloginc
- /ysiinc
- /xylemInc

**Linkedin**
- /company/sontek-ysi
- /company/waterlog
- /company/ysi

**YouTube Videos**
- /user/Sontekysi
- /waterlogxylem
- /user/wtwgmbhinternational
- /ysiinc

**Xylem is built around** the brands you know and trust—some of which have been providing reliable monitoring solutions to you for the last 65 years. We take great pride in designing, building, and servicing the high precision instruments and monitoring systems that help you collect accurate and reliable water resource data and information.

**YSI** is a world leader in water quality instrumentation for sampling, profiling and continuous monitoring.

**WTW** is a leading designer and manufacturer of quality water testing instrumentation for lab, field and online applications worldwide.

**SonTek** is one of the world’s leading manufacturers of acoustic Doppler systems for flow and velocity measurements.

**WaterLOG** is a world leader in water level instrumentation, and data logger telemetry systems for Hydro-Met measurements in harsh conditions.
**Surface water** can be affected by land use, agricultural practices, pollution and climate change. Monitoring and treatment of surface water requires significant investments in time and money. These investments and public health may be jeopardized if surface water is contaminated.

Trust Xylem’s sensors and systems to provide a continuous and comprehensive record of water quality and quantity. Our instruments provide the reliable data you need to act quickly, work efficiently and reduce costs.

We understand the challenges of working in natural environments. Our systems play a key role in improving water quality and plant efficiency, while allowing for early warning and rapid response to events such as algal blooms and floods.

Every environment is unique. Talk with our hands-on applications specialists, who can assist you with your specific monitoring needs.
Water Quality Sampling

Applications

- Bathing Beach Sampling
- Discharge Sampling
- Dredging Sampling
- Compliance Sampling
- Construction Run-off Sampling
- Estuary Sampling
- Lake Sampling
- Source Water Sampling
- Stream And River Sampling
- Storm Water Sampling

Parameters

- Ammonium/Ammonia
- Barometric Pressure
- Blue-Green Algae
- Chloride
- Chlorine
- Chlorophyll
- Conductivity
- Depth
- Dissolved Oxygen (DO)
- Nitrate
- Oxidation Reduction Potential (ORP)
- pH
- Resistivity
- Salinity
- Specific Conductance
- Temperature
- Total Dissolved Solids (TDS)
- Turbidity
- Nutrients, Metals And More

**Xylem water quality sampling instruments** are rugged with superior sensor technology to help you meet your critical water testing requirements. Since our development of the world’s first dissolved oxygen instruments for the field, our product offering has greatly expanded to include many additional parameters.

Our portable handheld instruments have flexible sensor options and provide accurate water quality data rapidly. Rugged cases and user-replaceable sensors provide a low overall cost of ownership and make our products a worthwhile investment.
The YSI **Professional Series** products were designed with customer input to make them ideal for field sampling. They are designed with rugged, waterproof cases, user-replaceable sensors and cables, and Military Spec connectors.

All of the YSI Professional Series instruments offer easy one-touch calibration and fast response times. Choose the right instrument for your sampling needs:

<table>
<thead>
<tr>
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<th>Pro20</th>
<th>Pro30</th>
<th>Pro1020</th>
<th>Pro1030</th>
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<td>pH or ORP</td>
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The YSI **Professional Plus** compact handheld instrument accommodates any combination of Pro Series sensor and cable assembly.

- Interval or single-event logging to the instrument
- Free Data Manager software

The YSI Pro Plus **Quatro Cable** assembly accepts our temperature/conductivity and DO sensors, plus any two of our Ion-Selected Electrode (ISE) sensors: pH, ORP, ammonium, nitrate or chloride.

The YSI **ProODO®** optical dissolved oxygen handheld instrument is versatile, durable, and has the fastest response time available.

- Optical, luminescent technology eliminates membranes
- Low maintenance—no anode or cathode to clean
- No flow requirement/no interference from hydrogen sulfide or other gases

![ProODO®](image-url)
The WTW Turb® 430 IR and Turb® 430 T are reliable and easy to use rugged instruments for rapid turbidity measurements in the field.

- High accuracy in low range turbidity
- Measures up to 1,100 Nephelometric Turbidity Units (NTU) with automatic ranging
- Intuitive calibration and measurement
- Data storage with sample ID
- AQA with calibration protocol
- Large, easy to read backlit display
- Nephelometric turbidity measurements at 90° scattered light angle
- The Turb® 430 IR meets the DIN 27027/ISO7027 requirements and the Turb® 430 T meets those of the US EPA 180.1.

**pHotoFlex Portable Colorimeters** are rugged, waterproof, multiparameter colorimeters ideal for the field. The instruments feature a large, backlit display, waterproof rating, data logging with the ability to export data to a computer using LSdata software, user-defined programs.

- Intuitive calibration and measurement
- Data storage with sample ID; 100 data sets with pHoto Flex STD and 1,000 data sets with pHotoFlex pH
- Large, easy to read backlit LCD display
- IP67 waterproof case
- Flexible, fixed adapter for various cell types features a flip design to accommodate a variety of heights and diameters
- ~138 tests (pHotoFlex pH); ~85 tests (pHotoFlex STD)
- PC connectivity to manage data
- BNC connection allows pH measurements directly and to measure the pH dependent parameter NH₃
The WTW IDS Multiparameter Profiling Sonde with digital depth measurement for accurate depth readings alongside other parameters in a compact profiling instrument.

- Simultaneous measurement of optical DO, pH or ORP, temperature, and conductivity
- Built-in barometric pressure compensated depth sensor

WTW MPP 930 IDS
- Three-channel multiparameter sonde for simultaneous profile measurements of up to three parameters including depth and temperature
- Typical applications are limnological profile measurements but also other studies of water bodies down to 100 m (328 ft)

WTW MPP 910 IDS
- Slender single-parameter sonde for simple measurement with interchangeable sensors.
- Measures in borehole as small as 5 cm (2 in)
- Ideal for sampling down wells
The YSI EXO1 and EXO2 Multiparameter Sondes are rugged, small sonde suitable for water quality sampling and profiling measurements. Automatically configure a sonde with different sensors for different applications in minutes.

- Surface and groundwater sampling and monitoring down to 250 m (828 ft)
- Bluetooth wireless communication
- Quick and easy calibration of multiple sensors
- Four (EXO1) or seven (EXO2) user-replaceable sensors and an integral pressure transducer for depth

**Sensor options include:** temperature/conductivity, pH/ORP, optical dissolved oxygen, turbidity, total algae and Fluorescence Dissolved Organic Matter (fDOM)

The SonTek CastAway® CTD is a small, lightweight, simple-to-deploy conductivity, temperature and depth (CTD) instrument that provides profiling data in minutes.

- Instantaneous profiles of temperature, salinity, and sound speed
- Fast sampling and sensor response (5 Hz)
- Easily review data on built-in LCD
- Measures down to 100 m (328 ft)
- Built-in GPS records position, date, and time
- Bluetooth wireless data download
- No user calibration required
- No tools, computers or cables required
Xylem Water Quality Monitoring multiparameter sensor instruments, provide reliable data for baseline and early warning water quality studies. These continuous monitoring instruments are ideal for long-term monitoring in environments such as rivers, lakes and estuaries.

Continuous water quality monitoring keeps you one step ahead of harmful algal blooms, sediment plumes, and low dissolved oxygen events.

Applications

- Algal Bloom Monitoring
- Compliance Monitoring
- Dam Removals
- Dredging
- Estuary Monitoring
- Lake Monitoring
- Real-time Alerts
- Saltwater Intrusion
- Source Water Monitoring
- Stream And River Monitoring
- Total Maximum Daily Load (TMDL) Assessment

Parameters

- Blue-green Algae
- Chlorophyll
- Conductivity
- Depth / Level
- Dissolved Oxygen
- fDOM
- ORP
- Photosynthetically Active Radiation (PAR)
- pH
- Specific Conductance
- Salinity
- TDS
- Total Suspended Solids (TSS)
- Temperature
- Turbidity
The YSI **EXO2 Multiparameter Sonde** is a rugged, flexible CTD alternative suitable for long-term, continuous monitoring in inland and coastal applications down to 250 meters (828 feet).

- Six user-replaceable sensors, a central wiper to keep sensors clean of biofouling, and an integral pressure transducer for depth
- Seamless integration into monitoring systems
- Flexible sensor payload/configurations
- Welded titanium sensors
- Wet-mateable connectors resist corrosion
- Welded housings and double o-rings prevent leaks
- Antifouling components help to protect data integrity and **extend deployments to more than 90 days**

Our Storm Solution (see pg. 24) is a great way to easily collect real-time data from your EXO advanced water quality sonde. Pair with our Integrated Systems for a complete data monitoring solution (see pg. 29).
The **EXO platform** was built out of two decades of continuous underwater data collection. It has been designed to live underwater, and survive the challenges of this demanding environment. New connectors and advancements in material science resulted in a monitoring platform that will last for the next decade.

In continuous monitoring applications extending deployment is critical to success and cost savings. A new central wiper system was introduced on **EXO** to remove bio-fouling that accumulates during deployments. Additionally, optical sensor faces are orientated in a plane, making the cleaning mechanism **25% more effective** than previous models. These changes result in longer deployments and less data drift.

**EXO** is all about the data. Continuous data collection exposes events and natural cycles that can be overlooked with a periodic sampling program. In the data plot you can see the deviation of the two lines, which represents water quality data collected on two different platforms. The downward drift can be avoided on **EXO** because of the superior anti-fouling technology.

EXO's superior anti-fouling technology prevents sensor drift.
YSI Vertical Profiling Systems, fixed on structures such as piers or floating on pontoons and buoys, provide an in-depth view of water quality throughout the entire water column.

- Monitor water quality at various depths
- Continuously monitor stratification and mixing without trips to the field
- Detect short-term events—storms, sediment transport, algal blooms—in water column
- Automated, unattended profiling helps track changes with complete data set
- Reduce equipment maintenance by using one sonde to profile entire water column
- Real-time data transmission provides alarming and alerting of changing water quality data
**Flow Measurement**

**Xylem flow measurement instruments** use acoustic Doppler sensors for measuring water velocity and flow in surface water environments such as rivers, lakes, and canals.

With water conservation demands growing every year, accurate and reliable flow measurements have become critical to water management decisions. Our solutions provide you with high precision flow measurements in less time than ever before.

**Applications**
- Flood Assessment
- Irrigation
- Natural Stream Flow
- Stream Indexing
- Wading / Non-wading Discharge
- Wastewater Effluent

**Parameters**
- Channel Definition
- Depth / Bathymetry
- Discharge
- GPS Positioning
- Temperature
- Velocity
The SonTek RiverSurveyor® accurately measures velocity profiles and discharge from moving boats or platforms, such as our hydroboard, in open channels.

Multiple acoustic frequencies fused with precise bandwidth control, produce robust and continuous shallow-to-deep measurements.

- Computes complete 3-D velocity profile and bathymetric channel cross-section in minutes
- Optional tethered platform for measurements from bridges
- Features multi-frequency velocity beams for robust bottom tracking and vertical beam for precise bathymetric surveying
- Internal DGPS with RTK option
- Embedded echosounder
- HydroSurveyor option (see pg. 27)
The SonTek **FlowTracker® Handheld ADV® (Acoustic Doppler Velocimeter)** is a smart and simple way to measure velocity and calculate wading discharge in streams, weirs, flumes, and open channels.

- Easily attaches to top-setting wading rod
- SmartQC for instant feedback on data quality
- Supports multiple river discharge methods and current velocity measurements
- Output data directly into FlowPack software
- Multi-language support

The FlowTracker works great with SonTek’s **FlowPack Software**

- Store flow, velocity, and stage measurements in one software package
- Generate velocity-index ratings for your SonTek Flow Monitoring instruments (e.g. Argonaut SLs and IQs) and create comprehensive reports
Streamflow Monitoring

Applications

- Flood Alerts
- Flow Measurement
- Non-contact Water Level Measurement
- Real-time Alerts
- Remote Data Delivery
- Reservoir And Lakes
- Rivers And Streams
- Water Level Monitoring

Parameters

- Flow
- Meteorological
- Temperature
- Velocity
- Water Level

Xylem streamflow monitoring instruments are the ideal solution for monitoring water quantity, flow and currents. Fully self-contained systems such as the SonTek-IQ, WaterLOG H-3553 Bubbler and our line of WaterLOG Data Loggers are user friendly, accurate and rugged.

Incorporate water quality and meteorological sensors along with our data logging and telemetry solutions, to create a complete early warning monitoring system with real-time alarming and alerts (see page 23).

Whether looking to measure flow in rivers, streams or canals, Xylem flow monitoring and gauging instruments are renowned for their robustness, ease of use and practicality.
The WaterLOG **Absolute Shaft Encoder (H-3342)** offers a user friendly way to measure water level in a stilling well. Monitor the position of a float and pulley with a magnetic sensor to minimize static sensitivity. This series is compatible with most data loggers.

- Absolute, optical encoder preserves correct position even if power is lost
- Built-in display with “Push to Read” button
- 65,000 counts per revolution

The WaterLOG **Self-contained Bubbler (H-3553)** is a combined constant flow bubbler with a built-in NIST traceable pressure sensor designed to directly measure water level with high accuracy in streams, rivers, lakes, wells and estuaries.

- Built-in display
- Measures depths up to 35 m (115 ft)
- Purge sustain feature
- Can deliver an automatic or manual user defined purge
- No bulky nitrogen tank required

The WaterLOG **Submersible Pressure Sensor (H-3123)** is an accurate way to measure pressure and temperature levels in ground water and surface water.

- Accuracy of 0.02%
- Robust dry air moisture barrier keeps moisture out of vent tube
- Rugged stainless steel design for long-term durability
Streamflow Monitoring

The Sontek Argonaut SL is designed specifically for side mounting on bridges, canal walls or riverbanks to measure ports and harbors, irrigation canals and river discharge and flow.

- 2D, side-looking velocity, level, and flow meter
- Calculates flow/discharge via theoretical or index-velocity ratings
- Installs on side of river or open channel for easy access and quick maintenance
- Measures remotely, avoiding flow interference from piers or pilings

The WaterLOG 3600 Series Radar Sensor provides a way to measure water level through non-contact transmission in streams, rivers, lakes and estuaries.

- Non-contact level measurement replaces stilling wells and other infrastructure
- Not susceptible to damage from debris
- Less maintenance than tide and stage sensors
- Measurement range up to 70 m (230 ft)
The **SonTek-IQ®** is a fully self-contained system that offers a flow monitoring solution for canals, and water monitoring sites with depths ranging from 0.08 m (0.3 ft) to 1.5 m (5 ft) for the IQ Standard, and 5 m (16 ft) for the IQ Plus.

- Specifically designed for open channels
- Velocity profiles in 3D with cells as small as 2 cm (0.8 in)
- Robust measurements in complex flow conditions
- Velocity, level, flow and total volume measurement in water depths as shallow as 0.08 m (0.3 ft)
- Self-calibrating water level using vertical beam and pressure sensor

The **SonTek-IQ® Pipe** offers a flow monitoring solution for most industrial or agricultural applications, and can provide accurate flow values in pipes from 0.46-5.0 m (1.5-16.0 ft).

- Velocity profiles in three dimensions with cells as small as 0.02 m (0.8 in)
- Robust measurements in complex flow conditions
- Velocity, level, flow and total volume in pipes with diameters between 0.46-5.0 m (1.5-16 ft).
**Meteorological Monitoring**

*Xylem meteorological monitoring systems* provide accurate measurements in extreme weather conditions worldwide.

Multiple sensors, including third party meteorological sensors, can be integrated with our systems. This provides a full meteorological monitoring station for many weather monitoring and forecasting applications.

**Applications**
- Atmospheric Pressure
- Episodic Events
- Real-time Alerts
- Solar Radiation Monitoring
- Storm Water Measurement
- Weather Forecasting
- Weather Monitoring

**Parameters**
- Barometric Pressure
- Precipitation
- Relative Humidity
- Solar Radiation
- Temperature
- Wind Direction
- Wind Speed
We offer complete Meteorological Station Capability and Services to meet all of your weather monitoring needs. Everything from single sensors, to all-in-one packages and full meteorological stations that meet state climatological office requirements are available.

Our sensors and third-party sensors can be coupled with our data logger / telemetry solutions (pg. 23) and integrated into a complete monitoring solution. We also offer full installation and training services (pg. 34).
Xylem can integrate third party sensors into Hydro-Met systems to provide a complete monitoring solution for your site. Sensors measuring parameters such as wind speed and direction, relative humidity, barometric pressure, PAR, visibility and more can be integrated into our systems.

We can work with almost any sensor you specify and supply sensors from most major manufacturers including Vaisala, RM Young, LiCor, Rontronic and Sentra¹.

¹ Independent sensor manufacturers not affiliated with Xylem.

The WaterLOG **Tipping Bucket Rain Gauge** is designed to measure rainfall and maintain accuracy at increased rates ranging from 0-635 mm (0-25 in) per hour.

- SDI-12 output
- Magnetic reed bucket tip sensor
- Two removable stainless steel funnel screens
- Built-in microprocessor automatically corrects errors

The WaterLOG **Air/Soil/Water/Temperature Probe** provides long-term, calibration free operation.

- Thermistor Probe
- Analog output
- Sealed, corrosion-resistant, non-conductive enclosure

Hydro-Met System
**Xylem Data Logging and Telemetry** Instruments provide reliable data collection and real-time data transmission in extremely harsh conditions. Integrate multiple sensors, including third party sensors, with our Data Logging and Telemetry systems to provide a total monitoring solution for your sites.

We offer a wide variety of land and buoy based solutions to meet all of your real-time data needs. Our systems provide you with a 24/7 view of your data for increased data quality and early warning through alarming and alerting.

**Parameters**
- Currents
- Flow
- GPS Position
- Hydrocarbons
- Nutrients
- Meteorological
- PAR
- Velocity
- Water Level
- Water Quality

**Applications**
- Episodic Events
- Estuaries
- Flow Monitoring
- Lakes
- Meteorological Studies
- Real-time Alerts
- Remote Data Delivery
- Streams And Rivers
- Water Level Monitoring
- Water Quality Monitoring
The WaterLOG Storm 3 Data Logger is an innovative data logging system that easily configures and collects a wide variety of data, and sends alerts using the browser-based graphical user interface.

- Data logger compatible with wide range of telemetry options such as Wi-Fi, cellular, GOES satellite, spread-spectrum radio and commercial satellite
- Built-in sensor library and help menus for quick set-up and troubleshooting
- The Storm3 is also available as a turn-key system integrated into a NEMA 4X enclosure complete with telemetry, battery and solar panel. Just add sensors for an instant monitoring station (see page 32 for more information).

The WaterLOG Storm Central cloud-hosted data solution collects data from the Storm data logger in real-time. Communicate through devices such as cell modems, GOES, and other transmitters. In addition, the Storm Central service is able to connect to your existing WaterLog GOES stations, providing an immediate view of your data.

- View data in graphical and tabular form
- Alarm and alert system allows remote monitoring of site
- Receive automated alerts via email, SMS text message or through color change of map icons

The WaterLOG Storm Local software is installed on a local PC or server and allows you to remotely download data from your telemetry enabled Storm data loggers. An additional Storm Local module allows you to easily download data from any of your WaterLOG GOES stations.
The WaterLOG **System 5000 Data Logger** is specifically designed to be configured for a wide variety of monitoring, data logging and SCADA applications in small remote hydrological and meteorological systems.

- Easy-to-read color display with LED backlight and touch screen
- Built-in graphical user interface
- Extremely versatile and expandable system capable of connecting to any sensor

WaterLOG **XL Series Data Collection Platforms (DCP)** are a smart way to collect reliable data from systems under extreme environmental conditions. Use in many hydrological and meteorological applications including stream/river monitoring, irrigation, flood warning and many others.

- Fully integrated HDR transmitter capable of communicating through GOES/METEOSAT/INSAT satellites
- Menu-driven setup
- Integral GPS with random and self-timed transmissions
- Near real-time data retrieval
Applications

- Algal Bloom Monitoring
- Baseline Monitoring
- Bathymetry
- Bottom Mapping
- Discharge Mapping
- Drinking Water Intake Monitoring
- Event Response
- Pollution Mapping
- Reservoir Mapping
- Reservoir Monitoring
- Velocity Profiles

Xylem’s bathymetry, velocity and water quality mapping tools allow you to get a complete three-dimensional picture of your stream, river, lake, reservoir or estuary. Our tools collect the data you need to produce comprehensive water quality, velocity, and bathymetry maps.

Our surveying and mapping tools are also a great way to enhance your long-term monitoring programs. Combining spatially-intensive data from your mapping with temporally-intensive data from your continuous monitoring stations gives you an unprecedented understanding of your waterway.

Parameters

- Bathymetry
- Blue-green Algae
- Chlorophyll
- Conductivity
- Currents
- Density
- Dissolved Oxygen
- ORP
- pH
- Salinity
- Sound Speed
- Specific Conductance
- Temperature
- Turbidity
- Velocity

CastAway® CTD
The SonTek HydroSurveyor™ collects bathymetric, water column velocity profile, and acoustic bottom tracking data as part of a hydrographic survey.

- Includes Acoustic Doppler Profiler (ADP) platform and powerful data collection software
- Full water column velocity mapping, 5-beam depth sounding and acoustic bottom tracking
- Water sound speed corrections done right in the field when seamlessly integrated with CastAway-CTD
- Data format readable by industry-standard HYPACK software
- Mounted over the side or towed behind a survey vessel or other floating platform
- Profile water currents while underway

The CastAway® CTD is a small, simple, calibration-free Conductivity, Temperature and Depth (CTD) instrument that provides data in minutes. The CastAway CTD’s sound speed velocity data can be used to correct bathymetric measurements made with acoustics. Our HydroSurveyor system automatically integrates in your CastAway CTD cast data for on-the-fly corrections.

- Instantaneous profiles of temperature, salinity, and sound speed
- Fast sampling and sensor response (5 Hz)
- Easily review data on built-in LCD
- Measures down to 100 m (328 ft)
- Built-in GPS records position, date, and time
- Bluetooth wireless data download
- Sound speed corrections for bathymetric measurements
The YSI EcoMapper™ AUV is a unique autonomous underwater vehicle designed specifically for high-resolution water quality mapping, water current measurements, bathymetry and side scan SONAR imagery over large areas.

- Completely autonomous and deployable by one person
- Collect high-resolution data without getting your feet wet
- Easy-to-use mission planning software
- Up and down looking Doppler velocity log
- Iridium tracking capabilities
- 8-12 hour run times at speeds of 1.3-1.8 m/s (2.5-3.5 knots)
- Continuous data collection through the entire water column
Xylem brands work together—providing a total solution to ensure you meet your budget without compromising the integrity of your data. Our complete, real-time monitoring solutions offer early warning and the critical water and weather data needed before, during and after episodic storm and flood events.

We bring everything together with our systems and services capability. Let our experienced integration teams design a custom monitoring solution and field services for you that meet the unique monitoring and data delivery needs of your specific project.

Applications

- Baseline Studies
- Bays
- Construction Monitoring
- Dredging
- Emergency Response
- Estuaries
- Fisheries
- Lakes
- Non-point Source / TMDL
- Point Source / Discharge
- Power Plant Discharge Monitoring
- Source Water
- Storm Water & Combined Sewer Overflows (CSO)

Parameters

- Currents
- Hydrocarbons
- Meteorological
- Nutrients
- PAR
- Water Quality
The YSI **EMM25 Sonde Spar** is a low-cost buoy option for short-term or long-term monitoring. Its simple design allows for rapid deployment in response to events or emergencies.

- Small and lightweight for one-person deployment
- Ionomer foam hull survives impacts, punctures and vandalism
- Central deployment tube for simple and fast integration of YSI water quality sondes or other devices
- Safe and secure deployment with locking well cap and flashing beacon
- Remote data access with Bluetooth wireless communication connectivity

The YSI **EMM68 Harbor Buoy** is a small and versatile buoy ideal for project-based deployments. Its simple set-up and integration provides easy access to water quality data in a variety of applications, such as construction, dredging and discharge monitoring.

- Quick deployment from the shoreline or small boat
- Collects data in waters as shallow as 1.8 m (6 ft)
- Quick response in emergencies
- View data in real-time via remote telemetry (See Storm Solution, pg.24)
- Serviceable without a diver
The YSI **EMM350 PISCES** is a lightweight, towable pontoon platform ideal for estuary, river and other high current applications. Its rugged structure supports a wide variety of water quality, water velocity and meteorological instrumentation, data collection and telemetry systems (see pg.23).

- Easy to deploy with two people, and towable
- Integrates data logging, water quality sensors and remote telemetry
- Meteorological sensor and current meter options
- High profile for visibility in navigable waterways
- Options for multi-depth sampling and flow-through cell configuration

The YSI **EMM700 Bay Buoy** is a medium-sized monitoring platform ideal for estuarine and inland water use. Its rugged structure supports a wide variety of water quality, water velocity and meteorological instrumentation, data collection and telemetry systems (see pg.23).

- Compact platform deployable from a small vessel
- Heavy-duty foam hull survives collisions
- Integrates data logging, sensors and remote telemetry
- Withstands harsh conditions in lakes, ponds, reservoirs, and estuarine applications
- Marine-grade anti-fouling paint reduces the accumulation of biofouling organisms
Xylem Turn-Key Telemetry Systems—are designed for quick and easy installation at fixed monitoring locations. These systems are based around our innovative Storm 3 data logger and integrate data from our multiparameter water quality, meteorological, and flow monitoring/gaging sensors. Systems are available with a wide variety of real-time communications options (cellular, GOES satellite and WiFi), are housed in a NEMA 4X enclosure, and include a battery, solar panel and antenna. Solid weather-proof connectors allow for quick connection of our multiparameter water quality sondes (see EXO pg. 10). Meteorological, water velocity, flow and water level sensors are easily connected inside the enclosure (see pg. 16 and 20 for these sensors).

These systems include 1 year of our Storm Central web hosted data solution, and where applicable, 1 year of cellular telemetry. Please contact your local sales office for more information.

While Xylem offers a wide-range of Turn-Key Telemetry Systems we can also custom design a solution for your more complex monitoring and telemetry needs. Many of our integrators are former customers who have years of experience in the field solving complex monitoring challenges.

**Whatever your application, whatever your mission, Xylem has a solution for you.**
Xylem Storm Water Monitoring Systems and Flood Alert Systems are custom designed to your specifications. These are versatile, advanced systems to measure water quality, level, water velocity, total flow/discharge, and meteorological parameters in real-time to meet almost any compliance criteria and protect public safety.

- Components include: level, precipitation, water quality, velocity and flow sensors and automated samplers
- Data loggers initiate sampling routines based on event criteria
- Notifications when a sample has been taken and of other alarm criteria, such as a parameter exceeding a maximum limit
- Deliver real-time data via cellular or radio modems to individual computers or customized private or public web sites
- Portable systems: aluminum chests or fibreglass clamshell boxes
- Permanent systems: mast-mounted, metal walk-in sheds or constructed walkways and platforms
Services

Xylem’s Services Divisions can partner with you to provide:

- Data Collection And Delivery
- Integration And Testing
- Long-Term Service Contracts And Extended Warranties
- On-site Repairs
- On-site Training
- Operation And Maintenance
- Project Definition
- Reports And Site Evaluation
- Startup And Commissioning
- Systems Design, Construction And Installation

Water Quality, Streamflow and MET Monitoring Stations

- Sites customized to your monitoring needs
- Surface mount enclosures for well top and stream gauging
- Rugged, high quality monitoring platforms
- Multiple sensor integration
- Transmitters capable of communicating through cellular radio GOES/METEOSAT/INSAT and commercial satellites
- Construction and installation of platforms, walkways, housings, and towers

Field Monitoring, Operation and Maintenance

- Site location selection and layout
- Data collection method assessment and recommendation (communication method/telemetry, etc.)
- Selection and integration of instrumentation, data collection and data presentation
- Baseline studies and event-based data collection services
- Experience with harsh environments and weather environments
- Software updates, data provisioning and reporting
- Sensor swaps and regular instrument maintenance and calibration
- Routine station maintenance and on-site repairs
- Ongoing quality assurance / quality control
More information

- ysisystems.com/services
- waterlog.com/designservices
- xylemanalytics.co.uk/field-services

Data Visualization

- Customized interfaces to your database population requirements
- Front-end display for data presentation in graphical or animated format
- Web-hosted data solutions
- Custom configured Data Acquisition Systems to meet your budget
- Third-party database interface and data display options
- Private network and enterprise software solutions
Learn More

Water Quality Sampling

Professional Series.................................................................ysi.com/proseries
Professional Plus.................................................................ysi.com/proplus
Quatro Cable
ProODO®........................................................................ysi.com/proODO
Pro2030 dissolved oxygen & conductivity..........................ysi.com/pro2030
Pro1030 pH or ORP & conductivity......................................ysi.com/pro1030
Pro1020 field dissolved oxygen, PH & ORP.......................ysi.com/pro1020
Pro20 dissolved oxygen.....................................................ysi.com/pro20
Pro30 conductivity.............................................................ysi.com/prop30
Turb® 430 IR and Turb® 430 T ...........................................wtw.de/en/products/lab/turbidity/portable-meters.html
9300 and 9500 Photometers.................................................ysi.com/photometers
IDS Multiparameter Profiling Sonde.................................wtw.de/us/products/lab/multi-parameter/electrodes.html
MPP 930 IDS........................................................................xylemanalytics.co.uk/MPP930
MPP 910 IDS........................................................................xylemanalytics.co.uk/MPP910
CastAway® CTD....................................................................sontek.com/castaway
EXO1 and EXO2 Multiparameter Sondes.............................exowater.com

Water Quality Monitoring

EXO2 Multiparameter Sonde..............................................exowater.com/exo2
Vertical Profiling System....................................................ysiystems.com/profiler™

Flow Measurement

RiverSurveyor®...............................................................sontek.com/riversurveyor
FlowTracker® Handheld ADV®........................................sontek.com/flowtracker
FlowPack Software

Streamflow Monitoring

Absolute Shaft Encoder (H-3342).......................................waterlog.com/shaft-encoder
Self-contained Bubbler (H-3553).........................................waterlog.com/3553-bubbler
Submersible Pressure Sensor (H-3123)..............................waterlog.com/3123pressure-sensor
Argonaut®-SL.................................................................sontek.com/argonautsl
3600 Series Radar Sensor................................................waterlog.com/radar
SonTek-IQ®........................................................................sontek.com/IQ
SonTek-IQ® Pipe...............................................................sontek.com/IQ
**Meteorological Monitoring**

Meteorological Stations .................................................. ysisystems.com/MET-stations
Tipping Bucket Rain Gauge ................................................. waterlog.com/rain-gauge
Air/Soil/Water/Temperature Probe ........................................ waterlog.com/377probe

**Data Logging / Telemetry**

Storm 3 Data Logger .......................................................... waterlog.com/storm3
Storm Central ................................................................. stormcentral.waterlog.com
Storm Local ................................................................. waterlog.com/storm3
XL Series Data Collection Platforms (DCP) ................................ waterlog.com/350XL
Satellite Transmitter (H-2221-V2) ......................................... waterlog.com/goes-transmitter
System 5000 Data Logger .................................................... waterlog.com/5000

**Surveying & Mapping**

CastAway® CTD ............................................................... sontek.com/castaway
HydroSurveyor™ ............................................................. sontek.com/hydrosurveyor
EcoMapper™ AUV ............................................................ ysisystems.com/ecomapper

**Systems & Services**

Turn-Key Storms, Custom Systems ....................................... ysisystems.com/storms
Buoys & Floating Platforms ................................................. ysisystems.com/Buoys-Floating-Platforms
EMM25 Sonde Spar .......................................................... ysisystems.com/Sonde-Spar
EMM68 Harbor Buoy ........................................................ ysisystems.com/Harbor-Buoy
EMM350 PISCES ............................................................. ysisystems.com/pisces
EMM700 Bay Buoy ........................................................... ysisystems.com/Bay-Buoy
Xylem’s Services Divisions .................................................. ysisystems.com/services
1) The tissue in plants that brings water upward from the roots; 
2) a leading global water technology company.

We’re 12,900 people unified in a common purpose: creating innovative solutions to meet our world’s water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. 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, backed by a legacy of innovation. Xylem (XYL) was named to the Dow Jones Sustainability World Index for advancing sustainable business practices and solutions worldwide.

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