

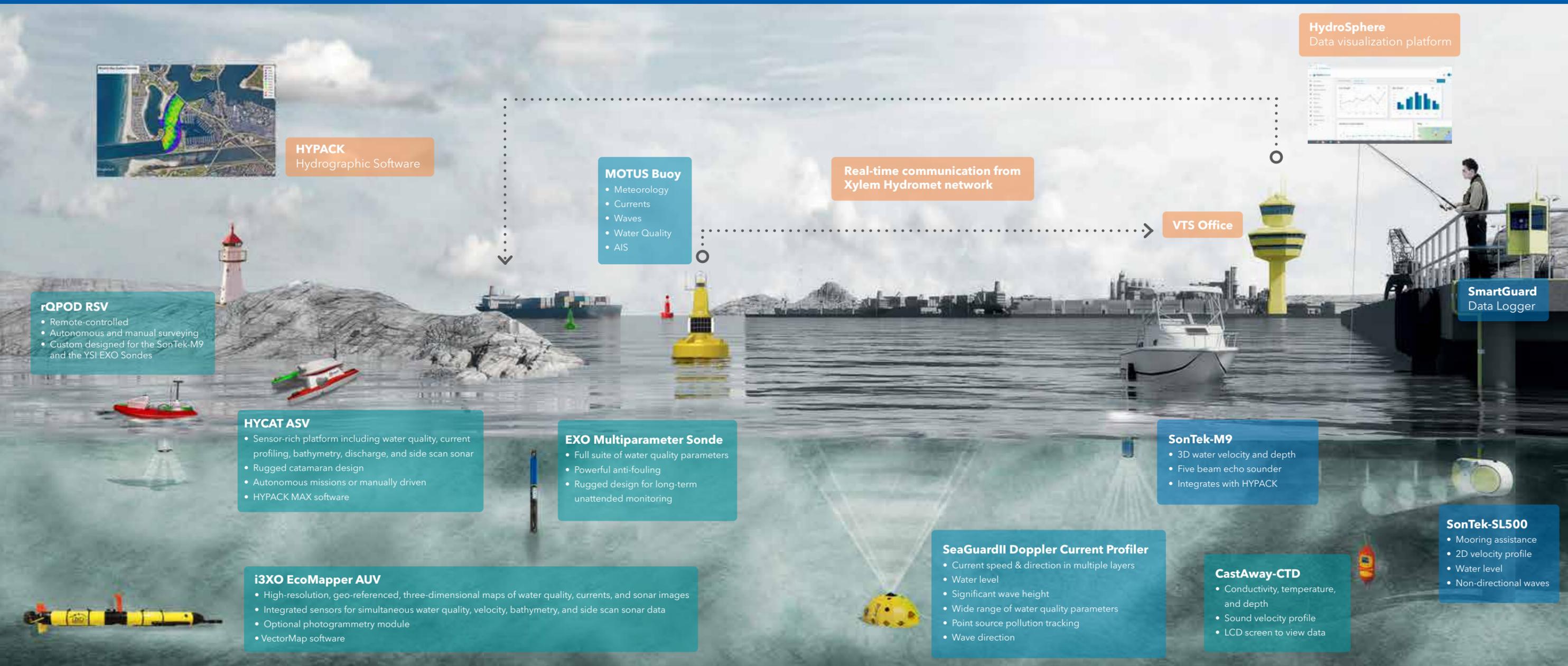


OCEAN AND COASTAL MONITORING SOLUTIONS

FROM SHORE TO DEEP OCEAN

OCEAN AND COASTAL MONITORING SOLUTIONS

Integrated systems offer complete solutions for oceans, coasts, ports, and harbors



rQPOD RSV

- Remote-controlled
- Autonomous and manual surveying
- Custom designed for the SonTek-M9 and the YSI EXO Sondes

HYCAT ASV

- Sensor-rich platform including water quality, current profiling, bathymetry, discharge, and side scan sonar
- Rugged catamaran design
- Autonomous missions or manually driven
- HYPACK MAX software

i3XO EcoMapper AUV

- High-resolution, geo-referenced, three-dimensional maps of water quality, currents, and sonar images
- Integrated sensors for simultaneous water quality, velocity, bathymetry, and side scan sonar data
- Optional photogrammetry module
- VectorMap software

EXO Multiparameter Sonde

- Full suite of water quality parameters
- Powerful anti-fouling
- Rugged design for long-term unattended monitoring

SeaGuardII Doppler Current Profiler

- Current speed & direction in multiple layers
- Water level
- Significant wave height
- Wide range of water quality parameters
- Point source pollution tracking
- Wave direction

SonTek-M9

- 3D water velocity and depth
- Five beam echo sounder
- Integrates with HYPACK

CastAway-CTD

- Conductivity, temperature, and depth
- Sound velocity profile
- LCD screen to view data

SonTek-SL500

- Mooring assistance
- 2D velocity profile
- Water level
- Non-directional waves

HYPACK
Hydrographic Software

MOTUS Buoy

- Meteorology
- Currents
- Waves
- Water Quality
- AIS

Real-time communication from Xylem Hydromet network

VTS Office

HydroSphere
Data visualization platform



SmartGuard
Data Logger

Complete Monitoring Solutions

- Wave and multilayer current monitoring systems
- Water quality monitoring systems
- Real-time data access via web or AIS
- Buoy, lantern, and AIS systems
- Autonomous survey systems and software
- Hydromet systems

OCEANOGRAPHY
ENVIRONMENTAL MONITORING **Ports and Harbor**
AQUACULTURE **OCEAN OBSERVATORY**
SYSTEM INTEGRATION **DREDGING**
OIL & GAS **COASTAL RESEARCH**
RECOVERY **WEATHER MONITORING**
OFFSHORE INSTALLATION

OCEAN CURRENTS

Aanderaa Doppler Current Sensor

The Aanderaa Current Sensors are available as single-point and profiling versions with three depth ratings for current measurements in natural waters. The sensors can be used as standalone or integrated to Data Buoy 1750 and other systems. The single-point sensor is also available in a multiparameter hub version.

» Aanderaa.com/singel-sensors



Aanderaa SeaGuard

SeaGuardII is the latest generation of multiparameter instruments from Aanderaa combining current measurement with other ocean parameters in real-time or *in situ*. It has the capacity to serve as an underwater observatory. Available in single-point and profiling versions.

» Aanderaa.com/Profiling-Current-Meter



Aanderaa RCM Blue

The RCM Blue is a self-recording single-point current meter offering Bluetooth for communications and data retrieval. The instrument uses a ZPulse Doppler Current Sensor for improved data quality.

» Aanderaa.com/RCM-Blue



SonTek-M9

The SonTek-M9 is a nine beam multi-frequency ADCP designed to collect bathymetric, water column velocity profile, and acoustic bottom tracking data as part of a hydrographic survey.

» YSI.com/RiverSurveyor-S5-M9



SonTek-SL Side-Looker Doppler Current Meter

The SonTek Side-Looker is a long-term monitoring solution available in two models for horizontal profiling and water level combined in one single instrument.

» YSI.com/SonTek-SL-Series



SonTek Argonaut-XR

The Argonaut-XR offers exceptional value for near shore deployments in less than 30 m of water. Designed specifically for mounting on the bottom of a channel or harbour. Features a special mode that automatically adjusts one of its measurement cells for changing water level.

» YSI.com/Argonaut-XR



OCEAN WAVES

DB 1750/MOTUS Buoy

Deployed in over 40 countries, the MOTUS buoy combines wave and current measurements with water quality sensor packages in one rugged platform. A selection of different communication solutions is available to ensure real-time data to shore.

» Aanderaa.com/Motus-Buoy



Aanderaa Wave and Tide Sensor

The Wave and Tide Sensor is a compact fully-integrated sensor for measuring wave and tide conditions. Designed to be mounted on the Aanderaa SeaGuard top-end plate, connected to SmartGuard using AiCaP CANbus, or in other measurement systems using the RS-232 interface. The sensor is designed for use with long cables by means of RS-422 full duplex interface.

» Aanderaa.com/Pressure-Based-Waves



Aanderaa SeaGuardII DCP Wave

The SeaGuardII DCP Wave is a Doppler current profiler with multi-sensor capabilities and a range of up to 80 m depending on local conditions. The instrument can be used bottom mounted or upside down from a buoy or string with wave direction in real time.

» Aanderaa.com/Profiling-Current-Meter-Wave



MOTUS Directional Wave Sensor

The MOTUS Wave Sensor is an integrated part of the MOTUS buoy, but is also suitable for other third-party buoys. The sensor processes wave data and is configurable to present parameters and wave spectrum directly. The sensor can be connected to a SmartGuard and other data loggers. The MOTUS has been installed on buoys up to 10 m in diameter.

» Aanderaa.com/Motus-Stand-Alone



MOTUS Wave Height Sensor

The MOTUS Wave Height Sensor is an accurate wave height sensor that processes wave data and configures to present parameters and non-directional wave spectrum directly. The sensor can be connected to an Aanderaa SmartGuard using the CAN Bus based AiCaP protocol, or it can be connected to most third-party dataloggers through the RS-232 interface.

» Aanderaa.com/Motus-Stand-Alone



MOTUS Lite OEM Sensor

The MOTUS Lite OEM version is the bare circuit board version of the Aanderaa MOTUS Sensor, intended for integrators and buoy manufacturers. The sensor is delivered without housing and cables and is not a complete solution but a component to be used in the customer's solution. It is intended for commercial as well as research use. The sensor processes wave data and is configurable to present parameters and wave spectrum directly. The sensor can be connected to most dataloggers through the RS-232 interface.

» Aanderaa.com/Motus-Stand-Alone



DATA DELIVERY

DATA LOGGERS

Aanderaa SmartGuard

A data logger designed for easy setup and integration with Aanderaa sensors as well as a range of third-party sensors. Tailored for Hydromet stations and data buoys with a wide range of telemetry options such as 3G modem, AIS, VHF/UHF radio, Iridium, and GOES. Users can connect to the logger 3 ways: LAN, Serial Port or USB.

» Aanderaa.com/SmartGuard



AUTONOMOUS & MODULAR REMOTE SURVEY BOAT SYSTEMS

YSI rQPOD RSV

The rQPOD Remote Surface Vehicle is a lightweight, easy-to-assemble propulsion system that can fit to many board-style platforms for quick setup and customization. Collect water quality, discharge, hydrographic, and even side scan sonar data all from one vehicle for integrated, spatially, and temporally-aligned data sets.

» YSI.com/rQPOD



YSI HYCAT ASV

The HYCAT Autonomous Surface Vehicle provides a total solution for your site. Customize your vehicle with plug-and-play sensors from leading brands for simultaneous water quality, current profiling, bathymetry, discharge, side scan sonar, real-time positioning, depth, and more.

» YSI.com/HYCAT



YSI i3XO EcoMapper AUV

The i3XO EcoMapper Autonomous Underwater Vehicle provides high-resolution water quality data, side scan sonar imaging, downward-looking current profiling, and bathymetric surveying. Create three-dimensional maps and profiles by diving through the water column.

» YSI.com/EcoMapper

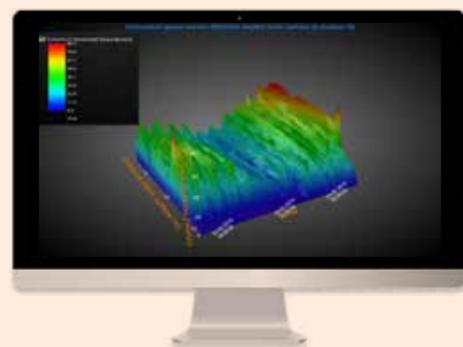


SOFTWARE & DISPLAY SOLUTIONS

Aanderaa DataStudio3D

Aanderaa has developed their own proprietary software, DataStudio3D. Download field data and plot them on different graphical plots. Compare parameters, view trends, anomalies, and control the data quality.

» Aanderaa.com/DataStudio3D



WATER QUALITY

Aanderaa Standalone Smart Sensors

Aanderaa Smart Sensors process data, including linearization, scaling, and necessary compensation in the sensor to output engineering values. Sensors available are serial and AiCaP bus sensors: Doppler Current Sensor, Oxygen Optode, Turbidity, Pressure/Tide/Wave, Conductivity/Salinity, and Temperature Sensors.

» Aanderaa.com/singel-sensors



SonTek CastAway-CTD

The SonTek CastAway-CTD is a handheld deployable conductivity, temperature, and depth instrument for hydrographic profiling. An integrated LCD screen displays an intuitive user interface for deployment and immediate review of collected data including both statistics and profile plots.

» YSI.com/CastAway-CTD



YSI EXO Multiparameter Water Quality Sondes

The EXO Sonde Platform represents the latest in long-term monitoring and early warning detection. User-replaceable smart sensors, combined with a central wiper, ensure quality data collection over extended deployments. EXO Sondes measure a wide variety of parameters: Conductivity, Temperature, Dissolved Oxygen, pH, ORP, Turbidity, Total Algae, fDOM, Nitrate, and more.

» YSI.com/EXO



MONITORING WATER LEVEL

Aanderaa Tide Sensor

The Aanderaa Tide & Pressure sensors are compact, fully-integrated sensors for measuring the hydrostatic pressure and water temperature in a fixed submerged position.

» Aanderaa.com/Tide-Sensor



YSI Nile Radar Sensor

The Nile Radar offers a non-contact water level solution with SDI-12 communications that allow for easy integration with many water monitoring platforms.

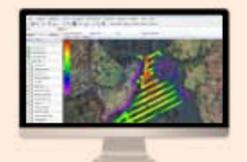
» YSI.com/Nile



HYPACK Hydrographic Software

HYPACK provides all the tools needed to design your survey, collect hydrographic data, process it, reduce it, and generate final products - or just positioning your vessel in an engineering project.

» HYPACK.com



HydroSphere

HydroSphere is a scalable, collaborative data visualization platform for outdoor water monitoring. Create public websites for visualization of customizable graphs, tables, dashboards, and data-driven alarms with customizable escalation.

» YSI.com/HydroSphere



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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