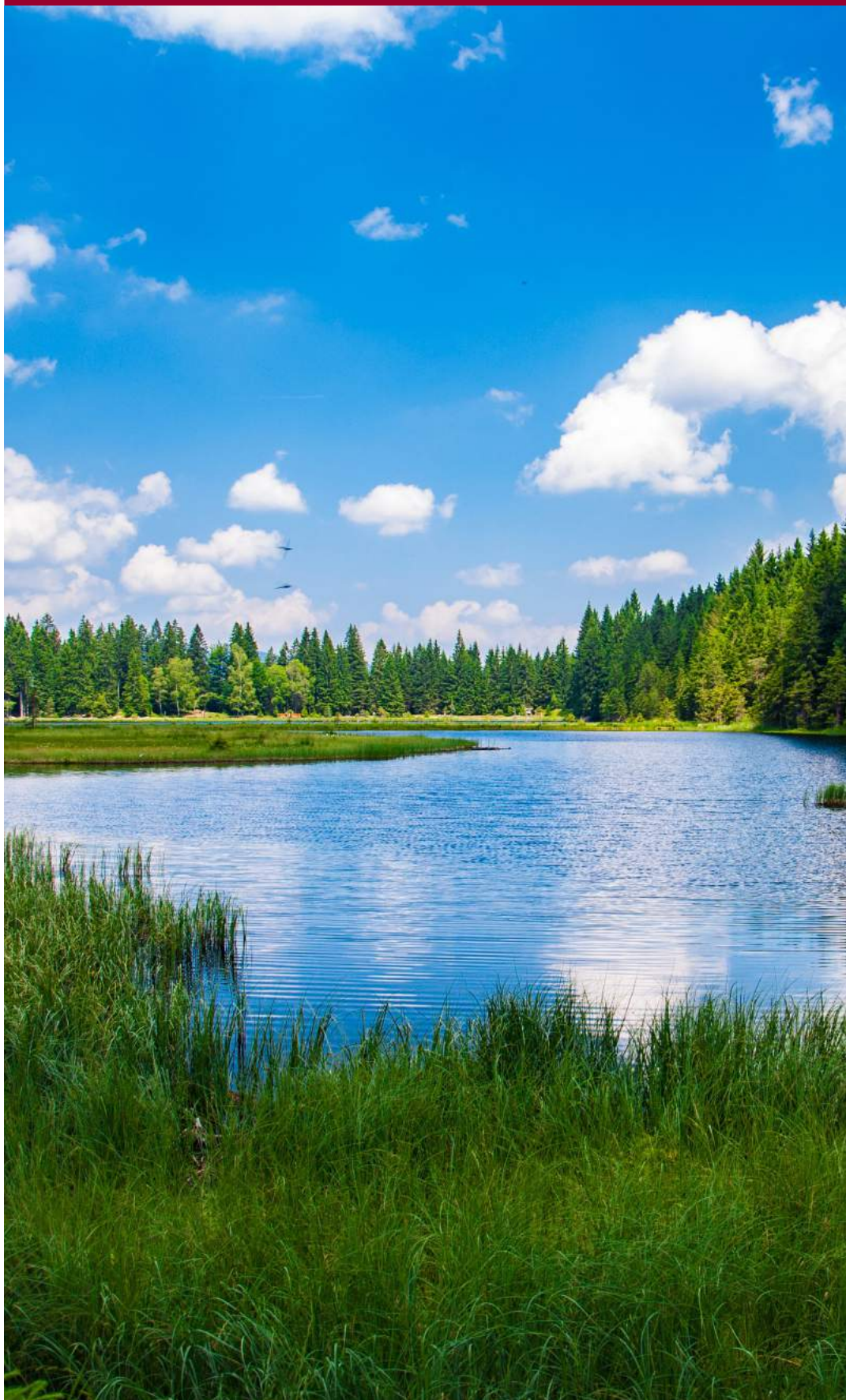


Water Quality



www.hoskin.ca

Supplying Testing & Monitoring Instruments Since 1946

For over seventy years, Hoskin Scientific has been a supplier of testing and monitoring instrumentation to the Canadian market. With offices in Vancouver, Oakville, and Montréal our customers are able to receive local sales and technical support in our three major departments.

Our Environmental Department provides solutions for monitoring and sampling biological and chemical parameters in the environment. Our team of environmental sales representatives and diverse product range guarantee that you will find the right products for your application. Specific areas include: water quality, water quantity, soil moisture, plant science, weather stations, indoor air quality, aquatic sampling, and oceanography.

Our Materials Testing Department offers testing equipment for soil, asphalt, petroleum, concrete and cement. Our qualified sales associates focus on providing a sophisticated range of testing equipment complying with the various test methods, ensuring that accurate and consistent test results are always obtained.

Our Instrumentation Department focuses on a wide range of products including optical camera systems, transducers and transmitters, data acquisitions and loggers, signal conditioners and indicators, automation sensors and measurement systems. We have technical sales associates that are trained in various areas and willing to help you with your instrumentation requirements.

Rentals

We offer high quality, proven equipment that will provide the user with valuable data as well as numerous ways of retrieving, filtering and viewing that data. We carry a wide range of instrumentation, including: water quality, portable gas monitors, soil sampling instruments and more.

Rental Equipment:

- Single and multi-parameter instruments that can be setup for spot checks or extended deployment/data logging
- Water sampling instruments
- Water velocity and stream profiling instruments
- Soil sampling instruments
- Soil vapour sampling instruments
- Portable gas monitoring instruments

Customer satisfaction is our goal and we make an effort to ensure that all our customers are satisfied with their rental. All rental instruments are cleaned and calibrated before being sent to the user (please note that we also require equipment to be returned clean). If a rental instrument requires recalibration, please return the instrument to us and we will recalibrate at no charge. Any instrument not functioning properly can be exchanged at no cost.

Hoskin Scientific offers technical support over the phone and can also provide hands on demonstrations.

We are constantly expanding and looking for new equipment to add to the rental inventory and welcome all suggestions.

Check our website www.hoskin.ca for current offerings.

Daily, weekly and monthly rental rates available – please call for a quote.

Loggers and Sondes

YSI EXO1 Water Quality Sonde	6
YSI EXO2 Water Quality Sonde	6
YSI EXO3: 5-Port Multiparameter Water Quality Sonde	6
EXO Handheld Display	6
C6™ Multi-Sensor Platform	7
C6P™ Submersible Fluorometer	7
C3™ Submersible Fluorometer	7
Submersible Water Datalogger - Fixed and Interchangeable	7
TempHion™ Submersible pH/ORP/ISE Smart Sensors	8
CT2X Submersible Conductivity/Temp/Depth Smart Sensors	8
Modbus® and SDI-12 protocols available	8
Pressure/level option available	8
Linear and nLfn temperature compensation	8
Up to 349,000 records / non-volatile	8
316 stainless steel, Viton® and Teflon® construction (titanium available)	8
Small diameter (0.75")	8
Digital industry standard RS485 interface	8
PE, PU, and FEP cable options	8
HOBO U24-001 Conductivity Data Logger	8
HOBO Pendant® Temperature/Light Data Logger	8
Temperature (1,000 ft.) TidBit v2 Data Logger	9
HOBO U22-001 Pro v2 Water Temperature (400 ft.) Data Logger	9
HOBO® MX2501 pH and Temperature logger	9
T-Chain GSM Datalogger	9

Professional Field Meters

T-Chain RS 232/485 - Temperature String	10
SCAMP Portable Microstructure Profiler	10
YSI ProDSS (digital sampling system)	10
ProSolo Water Quality Meter	10
YSI ProPlus with Quatro cable	11
YSI Pro1020	11
YSI Pro1030	11
YSI Pro2030	11
Pro20i Dissolved Oxygen Instrument	12
Pro20 Lab/Field Dissolved Oxygen Product title	12
Pro10 Temp/pH/ORP Meter	12
ProOBOD Self-Stirring Optical BOD Probe	12
Flow Cells - 6-Series, Extended Length, Quatro Cable	13
Sontek Castaway™ CTD	13
Portable pH/EC/TDS/Temperature Meter	13
Extended Range Portable pH/Temperature Meter	13
AquaFlash™ Handheld Active Fluorometer	14
AquaFluor™ Handheld Fluorometer and Turbidimeter	14
CyanoFluor™ Handheld HAB Indicator	14
Ballast-Check™ Handheld Active Fluorometer	14
FluoroSense™ Handheld Fluorometer	15
DataBank Handheld Meter	15
10AU Fluorometer	15
MultiLine® Portable Meters	15
VisoTurb® 900-P Turbidity Sensor for Spot Measurement with MultiLine® IDS	16
Submersible Turbidity Handheld Sensor	16
Calibration Standards and Fluorescent Dyes	16

Pocket Testers and Meters

EcoSense® Family of Handheld Meters	17
ULTRAPEN™ Pocket Tester Pens	17
ORPTestr® 50 Waterproof Pocket ORP Tester	18
pH/Conductivity/TDS Tester	18
pH/ORP Testers	18
High Range Phosphorus Colorimeter – Checker® HC	18
Ultra Low Range Phosphorus Colorimeter – Checker® HC	19

CON 110 Conductivity/TDS/Temp Meter	19
Waterproof DO 450 Meter	19
Waterproof pH/CON 450 Meter	19
Photometers, Spectrophotometers and Colorimeters	
Waterproof pH 450 Meter	20
pH/CON 10 Meter	20
9300/9500 Photometers	20
Phosphorous Portable Photometer	20
900 Chlorine Colorimeter	21
910 COD Colorimeter	21
pHotoFlex Colorimeters	21
COD3 Plus Colorimeter	21
Smart3 Colorimeter.....	22
2020i Portable Turbidity Meters	22
Waterproof to IP67	22
Lithium rechargeable battery	22
USB port.....	22
7 languages	22
Backlit display	22
EPA and ISO versions	22
Model 1200 Single Test Colorimeter	22
DC1500 Chlorine Colorimeter.....	22
Component Sensors	
LTC3000W Laboratory Turbidity, Chlorine and Colour Meter	23
SUNA V2 - Submersible Ultraviolet Nitrate Analyzer	23
WQ401 Dissolved Oxygen Sensor	23
WQ-FDO Optical Dissolved Transmitter	23
Cyclops Explorer.....	24
Enviro-T2™ Single-Channel In-Line Fluorometer	24
OD8325 Optical Dissolved Oxygen Probe	24
Analite NEP5000 Series Turbidity Probes	24
Analite NEP9000 Series Turbidity Probes	25
Turbidity Plus™ with Integrated Wiper.....	25
AquaTemp – Water & Soil Temperature Sensor.....	25
CTD Sensor - Electrical/Cond/Temp/Depth	25
T-Node FR Thermistor String.....	26
Thermistor Strings	26
Thermistor Readout	26
Cyclops-7F Submersible Sensor	27
C-sense™ in situ pCO ₂ Sensor.....	27
PhytoFind™ in situ Algal Classification.....	27
LISST-Portable XR: Laser Diffraction Particle Size Analyzer	27
LISST-200X: Measure Particle Size & Optical VSF	28
LISST-STOKES.....	28
LISST-VSF: Optical Volume Scattering Function and Depolarization	28
LISST-ABS: Submersible Acoustic Backscatter Sediment Sensor	28
LISST-Deep: Deep Ocean Laser Diffraction Particle Size Analyzer	29
LISST-Holo2: Holographic Camera for Flocs and Plankton	29
LISST-Hydro: Particle Size Analyzer for Hydro Power Applications.....	29
LISST-SL: For Vertical Profiles of River Sediments	29
LISST-Infinite: Sediment Monitor for Protecting Hydro Turbines	30
LISST-StreamSide: Particle Size Analyzer for Streams and Rivers	30
EcoLight-S.....	30
HydroLight	30
Benchtop Laboratory Instruments	
Trilogy Laboratory Fluorometer	31
Laboratory Meter for pH/ORP/conductivity/BOD.....	31
TruLab® Laboratory Meters for pH/mV (ORP)/Temperature.....	31
edge® – Multiparameter Meter (EC kit).....	31
125MicroScale Conductivity and Temperature Instrument	32
TruLine® Ion Selective Electrodes	32

Non-Invasive Microsensors

2D Sensing of Oxygen, pH, or CO ₂	33
Non-Invasive Oxygen Sensors.....	33
Fibox 4/Fibox 4 Trace Oxygen Meter	33
Microx 4/Microx 4 Trace Portable Oxygen Meter	33
OXY-4 mini/OXY-4 trace.....	34
OXY-10 mini/OXY-10 trace.....	34
pH Transmitters	34
SDR - SensorDish® Reader	34

Individual Test Kits and Screening Instruments

Microsensors.....	35
Insta-Test Strips.....	35
Test Papers.....	35
ColorQ DW Test Kit	36
AR Drinking Water Test Kits.....	36
Drinking Water - Individual Test Kits	36
UV/VIS Spectrophotometer	37
Spectro Spectrophotometer.....	37
Corrosion Control Kit (CCK).....	37
Storm Drain Water Monitoring Kit (SSDK).....	37

Deployable Systems

i3XO EcoMapper Autonomous Underwater Vehicle (AUV)	38
EMM350 Pisces	38
EMM 2.0 Coastal Buoy	38
EMM68 Harbour Buoy	38
EMM700 Bay Buoy	39
EMM25 Sonde Spar Buoy.....	39
6950 Fixed Vertical Profiler	39
Pontoon Vertical Profiler	39

Water Sampling

Vertical Profiling Systems.....	40
EXO Link	40
YSI ProSample Automated Sampler.....	40
Swing Sampler	40
Van Dorn Bottles	41
Kemmerer Bottles	41
Niskin Bottles.....	42

Water Sampling Bottle Accessories

Alconox Cleaning Solution.....	43
Braided Polyester Line.....	43
General Purpose Winch Mount, Steel.....	43
General Purpose Winch, Zinc Plated Steel	43
Stainless Steel Aircraft Cable, 1/8in, 100ft.....	44
Pocket Thermometers	44
Non-Metallic Solid Messenger - White PVC, 11 ounce	44
Stainless Steel Solid Messenger.....	44
Stainless Steel Split Messenger.....	45



YSI EXO1 Water Quality Sonde

A YSI multiparameter instrument that collects data with up to four user-replaceable sensors and an integral pressure transducer for depth. Each sensor port on the sonde accepts any EXO water quality sensor and automatically recognizes it.

Sensor Options:

Conductivity and Temperature
DO (optical)
fDOM, pH / ORP
Depth (integral)
Total Algae
Turbidity

Features:

Bluetooth wireless communication
USB connectivity
On board memory (>1,000,000 logged readings)
Fast response time for profiling and sampling
90 day battery life



YSI EXO2 Water Quality Sonde

A YSI multiparameter instrument that collects data with six user-replaceable sensors, a central wiper to keep sensors clean of biofouling, and an integral pressure transducer for depth.

Sensor Options:

Conductivity and Temperature
DO (optical)
fDOM, pH / ORP
Depth (integral)
Total Algae
Turbidity

Features:

Bluetooth wireless communication
USB connectivity
On board memory (>1,000,000 logged readings)
Fast response time for profiling and sampling
90 day battery life



YSI EXO3: 5-Port Multiparameter Water Quality Sonde

Offering the greatest value of any sonde available on the market, EXO3 combines the maneuverability of the EXO1 with the powerful antifouling wiper of the EXO2. EXO3 is a purpose-built sonde for monitoring major water quality parameters, including: pH, conductivity, temperature, turbidity, and dissolved oxygen.

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



EXO Handheld Display

EXO Handheld from YSI, designed and engineered as a dedicated interface to EXO sondes. Log realtime data, calibrate sensors, set-up sondes for deployment, and transfer water quality data to a PC with this featurepacked device. Designed for reliable field use in challenging environmental conditions, this display features a waterproof IP-67, impact-resistant case and wet-mate connector.

C6™ Multi-Sensor Platform



The C6™ Multi-Sensor Platform integrates up to six Cyclops-7™ fluorescence and turbidity sensors for extended or short-term deployments. The C6™ provides individual automatic gain control, calibration, digital data reporting and datalogging for each Cyclops-7™ sensor. Each C6 comes with factory installed temperature and pressure sensors and a depth rating of 600 meters. The C-Soft Windows™-based user interface allows for intuitive calibration, datalogging set-up and file downloading capabilities. Existing Cyclops-7™ users can easily integrate their sensor into the C6™ Multi-Sensor Platform.

C6P™ Submersible Fluorometer



The C6P™ Submersible Fluorometer can be configured with up to six optical sensors ranging from the deep ultraviolet to the infrared spectrum. Internal memory storage capacity combined with an external submersible lithium ion battery allow the C6P™ to run during extended or short-term deployments. Each C6P™ comes with a factory-installed temperature sensor. Optional factory-installed depth sensors and mechanical wipers are also available. The durable delrin housing is highly resistant to harsh environments. C-Soft Windows™ based software allows for intuitive calibration, datalogging set-up and file management capabilities as well as data integration.

C3™ Submersible Fluorometer



The C3™ Submersible Fluorometer can be configured with one, two or three optical sensors ranging from the deep ultraviolet to the infrared spectrum. Internal memory storage capacity combined with an external submersible lithium ion battery allows the C3™ to run during extended or short-term deployments. Each C3™ comes with a factory-installed temperature sensor. Optional factory-installed depth sensors and mechanical wipers are also available.

The durable delrin housing is highly resistant to harsh environments. Antifouling copper tape pieces are included for placement on the C3™ optical head to reduce bio-fouling on and around the sensors. C-Soft Windows™ based software allows for intuitive calibration, datalogging set-up and file management capabilities as well as digital or analog data integration.

Submersible Water Datalogger - Fixed and Interchangeable



The Cyclops-7F Logger connects to one Turner Designs Cyclops-7F sensor at a time. PME offers a fixed sensor version as well as an interchangeable sensor version. The logger records measurements internally at various possible sample rates. Data is offloaded from the logger to a computer via a standard USB cable. The logger is completely self-contained and waterproof. Internal power allows the logger to operate for roughly 28,000 samples.



TempHion™ Submersible pH/ORP/ISE Smart Sensors

The TempHion™ is a submersible water quality sensor and datalogger that comes with powerful, easy-to-use Aqua4Plus software. Each unit includes a pH/ORP element as well as one thermistor-based temperature element.

With a patented reference electrode, the TempHion provides long-term stability for continuous or intermittent monitoring—making unattended in-situ pH testing possible without frequent calibrations or service.

- RS485 network
- Integrated datalogger collects 200,000+ records



CT2X Submersible Conductivity/Temp/Depth Smart Sensors

The CT2X comes with INW's powerful, easy-to-use Aqua4Plus software, affording the user extensive control, including real-time monitoring and flexible programming, as well as versatile data display options.

- Modbus® and SDI-12 protocols available
- Pressure/level option available
- Linear and nLfn temperature compensation
- Up to 349,000 records / non-volatile
- 316 stainless steel, Viton® and Teflon® construction (titanium available)
- Small diameter (0.75")
- Digital industry standard RS485 interface
- PE, PU, and FEP cable options



HOBO U24-001 Conductivity Data Logger

This high-accuracy conductivity logger is a cost-effective way to collect water quality data. The HOBO U24 measures and records both conductivity and temperatures in streams, lakes, and other freshwater sources. This logger is recommended for monitoring aquifers for saltwater intrusion and road and agricultural runoff. This product's open access to its sensor simplifies cleaning and maintenance. The HOBO U24's non-contact sensor minimizes measurement errors related to drift. In addition, the logger features software-based drift compensation.



HOBO Pendant® Temperature/Light Data Logger

A miniature, waterproof temperature and relative light level data logger. Value-priced for deployment in indoor, outdoor, and underwater applications measuring relative light levels and ambient temperatures. For accurate temperature measurement in sunlight, a solar radiation shield is required. The MX2201 and MX2202 loggers leverage the power of Bluetooth Low Energy (BLE) to deliver accurate temperature measurements straight to your iOS or Android mobile device.

MX2201 - HOBO Pendant® MX Water Temperature Data Logger

MX2202 - HOBO Pendant® MX Temperature/Light Data Logger

UA-002-08 - 8K model stores approximately 6.5K of 10-bit readings

UA-002-64 - 64K model stores approximately 52K of 10-bit readings



Temperature (1,000 ft.) TidBit v2 Data Logger

The tiny Tidbit v2 has 12-bit resolution and a precision sensor for $\pm 0.2^{\circ}\text{C}$ accuracy over a wide temperature range. The Tidbit is waterproof to 300m (1000 ft). Data readout is available in less than 30 seconds via the Optic USB interface. For accurate ambient air temperature measurements in sunlight, a solar radiation shield is required (RS1 Solar Radiation Shield, assembly required; M-RSA pre-assembled Solar Radiation Shield).

- Onset's smallest temperature data logger
- Waterproof to 300 meters (1,000 feet)
- Data readout in less than 30 seconds via fast Optic USB interface



HOBO U22-001 Pro v2 Water Temperature (400 ft.) Data Logger

The HOBO Water Temp Pro v2 is durable with 12-bit resolution. Complete with a precision sensor for $\pm 0.2^{\circ}\text{C}$ accuracy, this logger measures temperatures between -40°C and 70°C (-40°F to 158°F) in air and up to 50°C (122°F) in water. Its waterproof, streamlined case allows for extended deployment in fresh or salt water.

- Research-grade measurements at an affordable price
- Waterproof to 120 meters (400 feet)
- Data readout in less than 30 seconds via fast Optic USB interface



HOBO® MX2501 pH and Temperature logger

The HOBO MX2501 pH and Temperature Data Logger is designed for long-term monitoring of pH in estuaries, lakes, streams, rivers, and oceans. Leveraging Bluetooth Low Energy® (BLE) technology, the MX2501 pH Logger communicates wirelessly with the free HOBOMobile® app on iOS devices making logger setup, calibration, and data offload quick and easy.

- Guided pH calibration following on-screen prompts in HOBOMobile app
- Rugged PVC housing for deployment in both freshwater and saltwater environments
- Quick and easy data offload via Bluetooth Low Energy (BLE) to iOS devices



T-Chain GSM Datalogger

Measuring water quality parameters and viewing them in real-time. The GSM data logger has been specifically developed to provide real-time communications for the T-Chain. It is a small, easily portable data logger that stores all data internally, and transmits them via GSM cell phone to a customer configured computer.

- 24 bit resolution
- Variable transmission rates
- Solar powered/Internal battery
- RS232 connection



T-Chain RS 232/485 - Temperature String

The T-Chain is a long electrical cable containing temperature sensors and possibly other sensors at specific intervals. The RS 232/485 T-Chain is intended to be connected to customer-supplied power and host logger systems.

T-Chain will emit calibrated measurements via RS232 or RS485. Every T-Chain is constructed on a semi-custom basis with the sensors pre-built and then positioned on the T-Chain according to customer requirements.

SCAMP Portable Microstructure Profiler



SCAMP is a portable, lightweight micro-structure profiler designed to measure extremely small scale (order 1 mm) fluctuations of electrical conductivity, temperature, and chlorophyll concentration in lakes, reservoirs, estuaries and oceans. SCAMP data can be used to infer the levels of dissipation of turbulent kinetic energy; in situ fluxes of heat, salt, and oxygen; and the micro-structure behavior of these parameters.

- Turbulence mixing in surface layers
- Temperature-gradient profile
- PAR and chlorophyll fluorometer

Professional Field Meters



YSI ProDSS (digital sampling system)

A handheld multiparameter meter that provides extreme flexibility for the measurement of a variety of combinations.

- Conductivity
- Salinity
- Total Dissolved Solids (tds)
- pH
- Orp (ph/orp combination)
- Temperature
- Depth and GPS
- DO (optical)
- Turbidity
- Specific Conductance
- Resistivity

*Flow through cells available



ProSolo Water Quality Meter

The ProSolo handheld is the direct replacement to the ProODO Optical Dissolved Oxygen handheld, and is fully compatible with ProODO cables and ProOBOD probes.

- Conductivity
- Salinity
- Temperature
- DO (optical)
- Specific Conductance
- ODO/T
- ODO/CT



YSI ProPlus with Quatro cable

- pH
- Conductivity
- Salinity
- TDS
- ORP/Redox
- DO (% sat & mg/l)
- Barometric Pressure
- Temperature

Applications: surface, well, & profiling applications

*Flow through cells available



YSI Pro1020

Rugged and reliable, the YSI Pro1020 provides everything you need in a handheld instrument for the measurement of either pH or ORP, along with temperature and dissolved oxygen.

- pH
- ORP
- Dissolved Oxygen



YSI Pro1030

User-replaceable sensors (pH) and cables and convenient calibration routine feature makes it extremely user friendly. Mil-spec (military spec) connectors, IP67 waterproof and rubber over molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.

- Temperature
- Conductivity
- TDS
- pH



YSI Pro2030

User-replaceable sensors and cables and convenient Quick Cal feature makes it extremely user friendly. Mil-spec (military spec) connectors, IP-67 waterproof and rubber over molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions. Available with 1, 4, 10, 20, or 30-meter cables.

- DO (mg/L & % sat)
- Conductivity
- Salinity (calculated)
- TDS (calculated)
- Temperature



Pro20i Dissolved Oxygen Instrument

Easy to use, rugged and reliable, the YSI Pro20i provides everything you need in a handheld instrument for the measurement of dissolved oxygen. User-friendly and convenient calibration routine and 50 data set memory. A true field instrument with IP67 waterproof, rubber over molded case, and 1-meter drop tests ensure durability to provide years of sampling even in the harshest field conditions.



Pro20 Lab/Field Dissolved Oxygen Product title

The YSI Pro20 dissolved oxygen meter is a rugged, user-friendly instrument for DO measurement. The Pro20 can be used in the lab or the field and can go from one to the other in seconds.

User-replaceable sensors and cables and convenient One Touch Cal feature makes it extremely user-friendly. Mil-spec (military spec) connectors, IP-67 waterproof and rubber over-molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions. The feature set of the Pro20 results in a low total cost of ownership over the life of the product.



Pro10 Temp/pH/ORP Meter

Rugged and reliable, the YSI Pro10 provides everything you need in a handheld instrument for the measurement of either pH or ORP along with temperature. User-replaceable sensors and cables along with convenient calibration routine feature makes it extremely user-friendly. Mil-spec (military spec) connectors, IP67 waterproof and rubber over molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling. The Pro10 proves that it is smarter, tougher and more versatile.



ProOBOD Self-Stirring Optical BOD Probe

The ProOBOD® self-stirring optical BOD probes are designed to fit into standard 300 mL BOD bottles with an international version also available for use with other tapers. EPA approved for wastewater compliance reporting of BOD and CBOD. The ProOBOD is designed for use with the YSI ProODO and ProDSS instruments. Optical, luminescent technology eliminates the probe warm-up period and membrane changes. The self-stirring BOD probe has a super quiet lab stirrer that helps ensure a representative sample and improves DO response times.



Flow Cells - 6-Series, Extended Length, Quatro Cable

6-Series

6601 - Standard for 6600 V2-2 and V2-4 sondes (cannot be used with 6600EDS)
6160 - 6820 and 6920 sondes
5083 - 600XL and 600XLM sondes
3076 - Extended length for 600XL V2 and 600XLM V2 sondes
696 - 600R and 600QS sondes

Extended length

603076 - Pro Series single or dual port cables

Quatro Cable

606850 - YSI 6850 flow cell for the Pro Series Quatro cable



Sontek Castaway™ CTD

The Sontek CastAway™ CTD is the world's first handheld castable instrument that provides instantaneous profiles of temperature, salinity, and sound speed. Oceanographers, hydrologists, and surveyors now have the ability to quickly collect reliable data from any dock, bridge, or boat.

- GPS position, date, and time
- Fast sampling and sensor response
- Waterproof interface works in and out of the water
- Bluetooth wireless communication
- No user calibration needed
- No tools, computers, or cables required



Portable pH/EC/TDS/Temperature Meter

These rugged, portable EC/TDS and temperature meters are housed in a case rated for IP67 conditions. The HI99300 is for low range EC measurements from 0 to 3999 $\mu\text{S}/\text{cm}$ and TDS measurements from 0 to 2000 ppm. The HI99301 is for high range EC measurements from 0.00 to 20.00 mS/cm and TDS measurements from 0.00 to 10.00 ppt.

All readings are adjusted with Automatic Temperature Compensation (ATC) and users are able to adjust the temperature correction coefficient and TDS factor for accurately compensated measurements.

E-443-HI 99300 - Low Range EC & TDS

E-443-HI 99301 - High Range EC & TDS



Extended Range Portable pH/Temperature Meter

The HI991001 is a compact, waterproof, portable meter that is supplied complete including a rugged carrying case and a unique titanium body pH electrode that has a built-in temperature sensor.

This meter features a large multi level LCD screen which displays both pH and temperature readings simultaneously with 0.01 pH resolution and an accuracy of ± 0.02 pH. The LCD screen also has indicators for calibration status and stability, as well as on-screen tutorial messages.

The HI991001 has an exceptional long battery life of 1200 hours of continuous use.



AquaFlash™ Handheld Active Fluorometer

The AquaFlash™ provides quick and accurate estimations for total chlorophyll and photosynthetic efficiency “health” of algae using in vivo fluorescence detection. The sample is saturated with high intensity light to quickly attain the maximum fluorescence state of algae. The fixed saturation pulse is optimized for this package enabling accurate results in less than 15 seconds. Simply insert a 10x10mm square glass or quartz cuvette with your sample and press READ. Results are displayed and automatically logged to be viewed or downloaded at a later time. The AquaFlash has a total data storage capacity of 1,000 measurements which include raw fluorescence values along with calculated estimates for user reference.



AquaFluor™ Handheld Fluorometer and Turbidimeter

The AquaFluor™ is a lightweight, inexpensive, handheld fluorometer/turbidimeter ideal for field use. Its small size and durability make the AquaFluor™ perfect for the user who needs quick measurements away from the laboratory. Dual-channel capability allows users to measure fluorescence and turbidity in one sample. While small in size, performance has not been compromised. The AquaFluor™ brings a new level of simplicity and economy to Turner Designs’ line of fluorescence-based instrumentation.



CyanoFluor™ Handheld HAB Indicator

CyanoFluor is factory calibrated meaning no calibration standards or tools are required; solid state opto electronics ensure long term instrument stability. CyanoFluor’s intuitive functions, self-contained design, small size, internal data storage and field portability make it an ideal instrument for HAB monitoring efforts. Raw water samples can be quickly analyzed with results displayed in less than 30 seconds. Simply insert a 4-sided clear 10x10mm square glass or quartz cuvette with your sample and press READ. PC:CHL ratios are displayed and logged to be downloaded at a later time. Raw fluorescence readings are also displayed and can be correlated with µg/L chlorophyll concentrations.



Ballast-Check™ Handheld Active Fluorometer

The Ballast-Check™ is a small, lightweight, highly durable handheld fluorometer ideal for quick shipboard ballast water compliance checks of the IMO D2 standard for live organisms, 10-50µm. Factory calibrated and set for maximum accuracy at detection level concentrations, the Ballast-Check™ is ready for use right out of the box, no calibration necessary. The Ballast-Check™ has simple one-button measurements that display both estimates of total chlorophyll and yield (Fv/Fm). A risk level of gross exceedance (High, Medium, or Low) is displayed with the measurement.



FluoroSense™ Handheld Fluorometer

FluoroSense™ is a small, lightweight, highly durable handheld fluorometer ideal for quick in situ field measurements of chlorophyll of Blue Green Algae. Extremely simple to operate, the FluoroSense displays results within seconds. Factory-calibrated for a linear range of 0-199 µg/L, the only maintenance required is simply rinsing after use.

- Dustproof, waterproof, highly durable
- Small size easily fits in shirt or jacket pocket
- >10,000 measurements per AA battery set
- One-button operation
- Low maintenance



DataBank Handheld Meter

The DataBank is a universal handheld meter, datalogger and power supply. Designed to work with analog sensors from various manufacturers, easy to connect and use. Data, including GPS information, can be stored and downloaded to a PC. Sensor calibration is simplified through continuous sensor readings with results graphically displayed.

- Stores up to 9,999 records and 16 calibrations
- Includes auto-gain function
- Enables unattended datalogging at intervals from 1 second to 4 days
- Provides rugged, weather-proof design



10AU Fluorometer

The 10AU Field Fluorometer is a rugged, field portable instrument that can be set up for continuous Rhodamine WT, Fluorescein, Chlorophyll (In Vivo & Extractive measurement) continuous or discrete monitoring.

Optical kits with appropriate filters and lamps are available for a wide range of applications and can be easily installed in the field or lab. Individual filters and lamps can also be purchased for customized applications.



MultiLine® Portable Meters

Three models with one, two or three universal channels measure every parameter either sequentially or simultaneously. Every model possesses a brilliant color graphic display, two USB interfaces (USB-A and Mini-USB), and rechargeable batteries that can be charged directly in the device.

- MultiLine® Multi 3630 IDS - pH, ORP, DO, conductivity and/or turbidity
- MultiLine® Multi 3620 IDS - pH, ORP, DO and/or turbidity simultaneously
- MultiLine® Multi 3510 IDS - pH/ORP, DO, conductivity and turbidity



VisoTurb® 900-P Turbidity Sensor for Spot Measurement with MultiLine® IDS

The VisoTurb® 900-P is an IR turbidity sensor for applications where turbidity can be directly measured in the sample. Its application range includes measurements in surface water, pumping tests and effluents of wastewater treatment plants, and other spot measurements.



Submersible Turbidity Handheld Sensor

NEP-5000-LINK is a handheld turbidity measurement solution. It consists of a submersible turbidity sensor with integrated wiper, a sensor cable, a Bluetooth module, a charger and an Android app for your mobile phone or tablet

The device is extremely easy to operate, using your familiar mobile device. After installing the app from the Google Play Store, the whole instrument will be up and running in a few seconds. The interface is fully intuitive.

Calibration Standards and Fluorescent Dyes

Hoskin carries Calibration standards for all instruments offered. Please contact your local office for a complete listing and availability.

- Ammonium
- Chlorophyll
- Conductivity
- DO
- Nitrate
- ORP
- pH Buffers
- Fluorescent Dyes
- Turbidity



EcoSense® Family of Handheld Meters

The EcoSense® line of compact, handheld instruments provides the most accurate data in the most affordable format. The instruments feature an easy-to-use interface, one-hand operation, IP67 waterproof case, and low cost of ownership over the life of the product.

EC3000A - The EC300A offers convenient conductivity, specific conductance, salinity, total dissolved solids, and temperature with a super-stable, four-electrode conductivity cell for true field applications.

pH100A - Designed specifically for spot sampling applications, the pH100A meter will fill the need for simple, one-handed operation instrumentation. Whether the need is a single monitoring instrument for temperature and pH or mV for wastewater, surface water, or aquaculture, the pH100A pH tester is up to the task.



ODO200 - The ODO200 is designed for quick, accurate results in an economical platform. The ability to measure DO optically along with temperature, in a simple, compact handheld allows the instrument to be used across multiple application sampling strategies in the field. With a one-year instrument, probe and sensor cap warranty, waterproof case and ease-of-use, the EcoSense ODO200 will fit your needs.

DO200 - The DO200 meter offers fast dissolved oxygen response times in wastewater, surface water, and aquaculture applications. Calibrates easily in a saturated air environment and displays in % or ppm (mg/L) values, giving you the best DO data quality possible. Available with 1-, 4- or 10-meter cable lengths. The DO200A can also be used in the laboratory with the 200-BOD self-stirring lab probe making the DO200A a true lab and field instrument.



EC30A - The pen style EC30A offers accurate, low-cost measurement of conductivity and TDS (total dissolved solids) along with temperature.

ORP15 - The pen style ORP15 offers accurate, low-cost measurement of ORP (absolute and relative) along with temperature.

pH10A - The pen style pH10A is the perfect instrument for economical spot sampling of pH and temperature in applications such as wastewater, surface water, aquaculture, hydroponics, pools, and education.



ULTRAPEN™ Pocket Tester Pens

These instruments are designed to be extremely accurate, fast and simple to use in diverse water quality applications. Advanced features include highly stable microprocessor-based circuitry; user-intuitive design; and waterproof housing. To take a measurement, you simply press a button then dip the pen in solution. Results display in seconds.

- ULTRAPEN™ PT1 - (EC), TDS, Salinity
- ULTRAPEN™ PT2 - pH and temperature
- ULTRAPEN™ PT3 - ORP, REDOX and Temperature
- ULTRAPEN™ PT5 - DO and Temperature



ORPTestr® 50 Waterproof Pocket ORP Tester

The Oakton ORPTestr® 50 features a replaceable double-junction platinum electrode — ideal for checking dirty water, heavy metals, sulfides, and organics. Valox® electrode body resists most chemicals. Use these versatile instruments for applications ranging from swimming pool testing to pulp bleaching.

- Redesigned leakproof cap functions as a sample cup, hydrating cup, and as stabilizing base to stand meter upright
- Replaceable, double-junction electrode sensors save time and money
- Easy-to-navigate interface for quick setup and calibration



pH/Conductivity/TDS Tester

These combo waterproof testers offer high accuracy pH, EC/TDS and temperature measurements in a single instrument! No more switching between meters for your routine measurements. This floating, combination tester has an easy to read, LCD and an automatic shut-off. pH and EC/TDS readings are automatically temperature compensated.

- Low Range - E-443-HI 98129
- High Range - E-443-HI 98130



pH/ORP Testers

The pHep® testers are for users that require the greatest accuracy and features while staying economical.

These models have BEPS as well as user selectable automatic shut-off, replaceable pH electrode cartridge, stability indicator and one or two-point automatic calibration.

- E-443-HI 98127 - pHep®4 - pH/Temp Tester with 0.1 pH Resolution
- E-443-HI 98128 - pHep®5 - pH/Temp Tester with 0.01 pH Resolution

High Range Phosphorus Colorimeter – Checker® HC

The HI706 Checker®HC (Handheld Colorimeter) provides a simple, accurate and cost effective way to measure phosphorus. Common in natural systems, such as lakes, oceans, and soil, phosphorus is an essential element in plant growth.

However, when present in large concentrations, phosphorus can cause excessive microorganism and algae growth, as well as corrosion to piping systems. Designed as a more accurate alternative to chemical test kits, the HI706 provides quick, accurate results in a few easy steps.



Ultra Low Range Phosphorus Colorimeter – Checker® HC



The HI736 Checker® HC (Handheld Colorimeter) provides a simple, accurate and cost-effective way to measure phosphorus in marine systems including reef tanks. Phosphorus is an important parameter to measure in aquaculture and aquariums; levels that are too high can lead to extensive algae growth, depleted dissolved oxygen levels, and ultimately can be fatal to many types of fish and aquatic life.

Designed as a more accurate alternative to chemical test kits, the HI736 provides quick, accurate results in a few easy steps. The ultra low range phosphorus colorimeter brings you more precise technology from your typical chemical test kit.

CON 110 Conductivity/TDS/Temp Meter



The microprocessor-based CON 110 Conductivity/TDS/Temp meter reads conductivity from 0 to 199.9 mS across five ranges. Display conductivity and temperature simultaneously.

- Store up to five calibration points
- Hold function; Auto-Off; Ready indicator
- Built-in benchtop stand
- Optional AC power adapter

Waterproof DO 450 Meter



The RDO 450 meter uses optical measurement technology offering fast response times and long-term stability with minimal maintenance. Plus automatic temperature compensation (ATC), barometric pressure compensation, and salinity correction to further ensure measurement accuracy. The large, backlit LCD lets you view % saturation or mg/L (ppm) simultaneously with temperature.

- Eliminates costly, tiresome membranes and solutions
- Rugged, IP67-rated housing for plant and field applications
- USB and RS-232 output for up to 500 data sets

Also available as **Waterproof pH/DO 450 Meter**

Waterproof pH/CON 450 Meter



The pH/CON 450 meter offers a rugged, waterproof housing, making it ideal for the manufacturing floor, field testing, and the laboratory. Large, backlit LCD lets you view the main measurement simultaneously with temperature. Calibrate pH with up to six points from USA, NIST, DIN, PWB, and custom pH buffer sets.

- Intuitive, user-friendly icons—electrode status displays pH slope
- Grip-Clip electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets



Waterproof pH 450 Meter

The pH 450 meter offers an IP67-rated waterproof housing, making it ideal for the manufacturing floor, field testing, and the laboratory. The large, backlit LCD lets you view the main measurement simultaneously with temperature and calibration data with % slope. Calibrate pH and ISE with up to six points from USA, NIST, DIN, PWB and custom pH buffers.

- Intuitive, user-friendly icons--electrode status displays pH slope
- Grip-Clip electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets



pH/CON 10 Meter

Measure pH, conductivity and °C with one meter and probe!

- New, improved probe design gives faster response time
- Switch from conductivity to pH at the press of a button
- Replaceable multi-sensor probe with 10 ft submersible cable
- Dual display of pH (or conductivity) plus temperature
- Push-button conductivity and pH calibration
- Automatic Temperature Compensation (ATC)

Photometers, Spectrophotometers and Colorimeters



9300/9500 Photometers

Selecting the desired test has never been easier. Simply choose among the list of available tests on the large graphic display and the instrument will walk you through the test procedure - it's that easy! Simple. Convenient. Accurate.

Features for the 9300 include:

- Direct reading concentrations
- Waterproof IP67 rating
- Large, backlit graphic display
- Sample tube holder automatically adjusts for various diameters



Phosphorous Portable Photometer

The HI96706 Phosphorous Photometer combines accuracy and ease of use in an ergonomic, portable design. Using the HI93706-0 ready-made reagents a user can accurately determine the concentration of phosphorus within a 0.0 to 15.0 mg/L (ppm) range.

The HI96706 offers many advanced features including the exclusive CAL Check™ function utilizes ready-made, NIST traceable standards to verify both meter validation and calibration.

900 Chlorine Colorimeter



The 900 colorimeter is a rugged, waterproof, single parameter instrument for the measurement of Total Chlorine or Free Chlorine. Whether you need to measure chlorine in wastewater, groundwater, or in pools, this chlorine tester is waterproof with an easy to read display and will provide readings in minutes.

The instrument features a real time clock, automatic data logging as well as the ability to export data to a PC or printer using the 900 Series Data Hub for infrared data transfer.

910 COD Colorimeter



The 910 colorimeter is a rugged, waterproof, single parameter instrument for the measurement of COD (chemical oxygen demand).

The EPA-approved COD test is useful for performing rapid, frequent monitoring of treatment plant efficiency, and results allow quick response to changing conditions in the waste stream while the traditional BOD5 test takes 5-days to determine results.

The instrument features a large, backlit display, a real time clock, automatic data logging as well as the ability to export data to a PC or printer using the 900 Series Data Hub for infrared data transfer.

pHotoFlex Colorimeters



The pHotoFlex line of colorimeters is the newest addition to YSI's full range of colorimeters. These rugged, waterproof, multi-parameter colorimeters are ideal for laboratory and field testing. 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 and a 2-year warranty.

E-528-1P21-2Y: CR2200 Thermoreactor for COD/thermal digestions for up to 12 test tubes, 3 reactor temperatures and 8 fixed programs; 115V

E-528-1P22-2Y: CR3200 Thermoreactor for COD/thermal digestions for up to 24 reaction cuvettes, selectable temperatures and 8 user-defined/8 fixed programs; 115V

E-528-1P23-2Y: CR4200 Thermoreactor for COD/thermal digestions for up to 2x12 reaction test tubes, selectable temperatures and 8 user-defined/8 fixed programs; 115V

COD3 Plus Colorimeter



The user-friendly COD3 Plus Colorimeter is direct reading for on-site water analysis. It features pre-programmed tests, automatic wavelength selection, menu-driven operation, and large backlit display screens. The analyst can simply select the test and put in the sample with reagent. The microprocessor, which selects the wavelength, also allows the user to load up to 25 tests for analyzing custom reagent systems.

The data logger holds up to 500 time and date stamped data points which can be downloaded via a USB connection.

Smart3 Colorimeter



The compact SMART3 Colorimeter is ideal for water analysis in the field or in the lab. Easy to use software allows the analyst to choose a test factor from over 75 preprogrammed calibrations for LaMotte reagent systems.

The reacted sample is always scanned at the optimum wavelength which is automatically selected from the multiple LED optical system and the test result is presented on the large, backlit display. The test result is displayed directly in units of concentration, as well as Absorbance and %T, in one of seven languages.

2020i Portable Turbidity Meters



New RATIONOMETRIC design in one of the most innovative, WATERPROOF, handheld meters available on the market!

The multi-detector optical configuration assures long-term stability and minimizes stray light and color interference. The new ratiometric design allows for easy and accurate testing.

- Waterproof to IP67
- Lithium rechargeable battery
- USB port
- 7 languages
- Backlit display
- EPA and ISO versions

Model 1200 Single Test Colorimeter



The Model 1200 Series of single test, direct reading colorimeters incorporates design advances that enhance reliability, improve accuracy, and simplify the calibration process, all in a portable, hand-held package.

Available Kits:

- | | | |
|-----------------------------|--------------------|---------------------------------|
| • Ammonia Nitrogen | • Copper | • Phosphate |
| • Bromine | • Fluoride | • Ozone |
| • Chlorine DPD Tablet | • Sulfate | • Ozone (w/out other oxidizers) |
| • Chlorine Liquid DPD | • Manganese | • Iron |
| • Chlorine Dioxide | • Molybdenum | |
| • Chlorine Dioxide (liquid) | • Nitrate Nitrogen | |

DC1500 Chlorine Colorimeter



The DC1500 Chlorine Colorimeter Kit, ideal for both field and lab use, covers the entire critical chlorine range of 0-4 ppm with an MDL of 0.03 ppm. The Colorimeter is also EPA Compliant, (tablet version), using proper wavelength and DPD test method to meet EPA design specifications for NPDWR and NPDES chlorine monitoring programs (EPA 330.5 and Standard Method 4500).

The DC1500 Chlorine Colorimeter Kit includes tablets for 100 tests or liquid reagents for 140 tests, six sample vials, and a sturdy carrying case. A complete, economical package!

LTC3000W Laboratory Turbidity, Chlorine and Colour Meter



The LTC3000 is a benchtop turbidity, chlorine and colour meter with wide range and high accuracy. ISO unit also available. The meter meets EPA 180.1 for turbidity and EPA 330.5 for chlorine. The turbidity range is 0-4,000 NTU with a MDL of 0.05 NTU. The free and total chlorine range is 0-10 ppm with a MDL of 0.03 ppm. The meter can store 500 data points which can be downloaded to a computer, allows 7 different languages, and runs on rechargeable batteries or a USB computer/wall adapter.

Supplied with 0, 1, and 10 NTU standards, sample bottle, 6 sample tubes, 100 each free and total chlorine DPD tablets, and USB cable and computer/wall adapter.

Component Sensors

SUNA V2 - Submersible Ultraviolet Nitrate Analyzer



The SUNA V2 is a chemical-free UV nitrate sensor based on the ISUS (In Situ Ultraviolet Spectroscopy) UV nitrate measurement technology developed at MBARI. Satlantic has adapted the technology to develop the SUNA V2 to measure nitrate in increasingly more challenging environments including extremely turbid and high CDOM conditions. With improved optics and built-in logic intelligence, the SUNA V2 measures nitrate with industry leading accuracy and stability over a wide range of environmental conditions, from blue-ocean nitraclines to storm runoff in rivers and streams.

WQ401 Dissolved Oxygen Sensor



The dissolved oxygen sensor is a rugged reliable water oxygen level measuring device. These sensors are attached to 25' of marine grade cable, with lengths up to 500 ft available upon request. The sensor output is 4-20 mA with a three wire configuration. The electronics are completely encapsulated in marine grade epoxy within a stainless steel housing (online version has 1x8 inch PVC pipe nipple, threaded both ends with cap).

The sensor uses a removable shield and dissolved oxygen element for easy maintenance.

WQ-FDO Optical Dissolved Transmitter



The WQ-FDO Optical Dissolved Oxygen Transmitter is an instrument designed for measuring dissolved oxygen concentrations in liquids. The WQ-FDO was developed to meet different requirements ranging from surface water monitoring programs to harsh waste water applications.

Specifically designed to meet the demanding requirements of the environmental monitoring and scientific research sectors, providing long term, accurate and reliable dissolved oxygen measurement. With extremely low power requirements and a 4-20 mA output making it ideal for incorporation into remote environmental monitoring installations.

Cyclops Explorer



The Cyclops Explorer is a handy tool when using Cyclops-7 or Cyclops-6K Submersible Sensors in the lab. Plugging directly into the USB port on a computer, the Explorer guides the user through simple GUI controls to analyze samples, determine limits of detection, check instrument stability, or simply become familiar with how to use Cyclops functions.

- Fixed or Auto Ranging options
- Graphical and tabular data view
- Data logging enabled
- Single data point capture for time series analysis of samples
- User defined sample intervals

Enviro-T2™ Single-Channel In-Line Fluorometer



An accurate fluorometer that installs into a plumbing tee for direct in-line measurements. It easily integrates with data collection systems providing a 4 – 20 mA output proportional to the fluorescence from chlorophyll in the water sample. The Enviro-T2 is a high performance, rugged, continuous sampling device providing solid-state reliability with a quick one-step disconnect for instrument maintenance or inspection. Factory calibrated and requiring minimal installation effort, simply plumb the Enviro-T2 in-line with your online monitoring system, connect the output to your controller or data logger to estimate algal abundance.

OD8325 Optical Dissolved Oxygen Probe



This submersible DO probe provides a 4/20 mA current loop or a RS485 output. It is equipped with an optical DO sensing element and an internal Pt1000 temperature compensator.

The configuration of the scale, pressure, relative humidity, salinity and calibration is performed in the digital mode through the hypertextual of the PC. Autoclean of the sensing element is performed by the injection of clean air pressure, provided by the user. For in tank installation, the extension pipe adapter is required.

Analite NEP5000 Series Turbidity Probes



The NEP5000 series of digital turbidity probes are designed for environmental monitoring and process applications.

The sensor is extremely accurate and stable, even at NTU levels below 10. Standard user selectable ranges are 10NTU, 400NTU and 1,000NTU with custom ranges from 0-5NTU to 0-5000 NTU available. The backscatter version goes up to 30.000 NTU. Optionally, pressure and temperature can be measured as well.

Analite NEP9000 Series Turbidity Probes



The ANALITE NEP9000 and NEP9500 series of analogue output turbidity probes are designed for monitoring and process applications where turbidity levels of up to 3,000NTU may be encountered. Standard ranges are 100NTU, 400NTU and 1,000NTU, custom ranges up to 3,000NTU are available.

The probes use 90° optics and employs infrared light in accordance with ISO7027. All probes use a unique modulation technique that ensures almost total rejection of ambient light conditions as well as a unique microprocessor controlled differential sample and hold circuit for enhanced performance particularly at low turbidity levels.

Turbidity Plus™ with Integrated Wiper



Turbidity Plus™ is an accurate single-channel turbidity sensor including an integrated wiper which is triggered by the user. It is designed for integration with multiparameter systems and dataloggers from which it receives power and the wiper trigger.

Turbidity Plus delivers a voltage output proportional to the turbidity of the sample which can be correlated to nephelometric turbidity unit (NTU) values by calibrating with a standard of known concentration. Deployable to 200m, Turbidity Plus is available with or without a plastic housing for simplified integration.

AquaTemp – Water & Soil Temperature Sensor



Sutron's submersible SDI-12 temperature sensor is designed for a variety of applications. The unit functions effectively in soil, shallow streams and surface water where shorter cables runs are common. AquaTemp accurately measures temperatures in stilling wells, dams and aquaculture tanks where very long cable runs are often necessary (up to 300 ft.). Cable length does not affect accuracy performance.

- SDI-12 Operation (V1.3)
- Tough UV resistant polyurethane cable with waterblock 60ft. standard
- Stainless steel body with eyelet for weight or pull strings
- Flex fitting to protect cable

CTD Sensor - Electrical/Cond/Temp/Depth



The Decagon CTD sensor is a low cost, accurate tool for monitoring of water level, electrical conductivity, and temperature in both ground water and surface water. The sensor utilizes a vented pressure transducer to obtain accurate water level measurements from 0 to 3.5 m, while removing the effects of barometric pressure.

With a range of 0 to 120 dS/m, the CTD sensor has the ability to make accurate electrical conductivity measurements in a broad range of applications.

T-Node FR Thermistor String



The NexSens T-Node FR Thermistor String provides high precision measurements in a connectorized and addressable architecture for water quality profiling. Each node features an integral titanium thermistor secured and epoxied in a protective housing for underwater deployments. The nodes are connected in-series using marine-grade UW Cables with braided Kevlar core and double O-ring seals.

Each T-Node FR sensor is accurate to ± 0.075 C for high-precision measurements. The exposed titanium thermistor makes direct contact with water, allowing readings to stabilize within 60 seconds. Temperature data is transmitted on a RS-485 Modbus RTU string bus for integration with data loggers and SCADA systems.

Thermistor Strings



Thermistor Strings are curve matched to desired temperature tolerance over selected temperature ranges. This permits the use of multiple sensors with a single readout or data logger, eliminating costly calibration procedures.

Custom manufactured to user specifications: cable length, thermistor number, accuracy, and location on the string. Resistance to the ingress of water is insured by a triple encapsulation procedure. Standard cable employed is a heavy duty, direct burial rated 22 gauge water blocked instrumentation cable.

High reliability, ensured by triple encapsulation
Precision matched, interchangeable thermistors
Pre-assembled to specific length and spacing
Heavy duty, direct burial cable standard



The NexSens TS210 Thermistor String provides high precision temperature measurements for profiling in lakes, streams, and coastal waters. It features an integral titanium thermistor secured and epoxied in a protective housing for underwater deployments.

TS210 strings are available standard with 1m spacing or at custom intervals to meet project requirements. Cable lengths are available up to 1,219 meters (4,000 feet) with a maximum 250 nodes. Optional accessories include a bottom pressure sensor, cable clamps, stainless steel mooring line, and communication adapters.

Thermistor Readout



The portable TH2016 Thermistor Readout reads, displays, and logs up to 16 thermistor string points at the push of a button. Unprecedented accuracy, flexible memory options and ease of use make the TH2016 invaluable for projects requiring temperature monitoring involving thermistor strings. Maximum download time is only 15 seconds. Complementing its high level of accuracy, the TH2016B is also designed for maximum efficiency with the user in mind. Housed in a compact and rugged case the complete readout operates with only 3 "AA" batteries, and comes well-equipped with a large graphics display with backlight.

Cyclops-7F Submersible Sensor



Cyclops-7F™ Sensors are high performance, compact submersible sensors designed for integration into any platform that provides power and datalogging. Available with multiple optical configurations, Cyclops-7F Sensors have a universal I/O for connection to parent systems. Recently updated to have a faster settling time, Cyclops-7F is ready to make measurements 1 second after power up.

Sensors available: Blue Green Algae, CDOM/FDOM, Chlorophyll in vivo, Fluorescent Dye Tracing, Hydrocarbons, Turbidity, Wastewater Monitoring.

- Interfaces with DataBank™ Datalogger
- Custom optics available : 260-900 nm
- Cyclops Explorer enables various lab applications

C-sense™ in situ pCO₂ Sensor



C-sense™ probes are compact, lightweight sensors for measurement of the partial pressure of gas in liquids. Designed for applications involving immersion in water, oil, or water and oil mixtures, the sensors combine an oil-resistant interface with a compact, temperature-compensated non-dispersive infrared (NDIR) detector.

C-sense ships with a copper antifouling guard which minimizes biofouling as well as protects the membrane. Designed for integration, C-sense™ enables pCO₂ monitoring at a significantly lower price than traditional pCO₂ sensors.

PhytoFind™ in situ Algal Classification



PhytoFind™ is an in situ Algal Classification tool that distinguishes among algal groups using specific fluorescence signatures. Real-time abundance estimates are calculated for PE-containing algae (mixed group), PC-containing algae (Cyanophyceae), and total algae (all other algal groups).

Calculations include an automatic correction for interference from dissolved organic materials (DOM) providing more accurate real-time estimates. Optics are optimized to minimize interference from turbidity. Abundances are displayed and logged as group percentages along with temperature, depth, and chlorophyll (µg/L) concentrations.

LISST-Portable|XR: Laser Diffraction Particle Size Analyzer



The world's first and only battery powered portable particle size analyzer. The LISST-PPortable|XR can be used in the field, in the laboratory or on the factory floor.

The sample is analyzed in a wet state to obtain the particle size distribution and the particle volume concentration. Using the same laser light scattering method as popular laboratory particle size analyzers.

It has all the features and performance of a laboratory instrument but in a self-contained, portable enclosure that allows you to make measurements where it's needed, when it's needed.

LISST-200X: Measure Particle Size & Optical VSF



The LISST-200X is a submersible laser-diffraction based particle size analyzer designed to measure particle size and concentration in rivers, streams, ports, harbors, coasts and oceans, whether for biological, sediment transport, or environmental monitoring needs.

Applications include sediment transport studies, harmful algae blooms, oil spill dispersion effectiveness, dredge plume monitoring, etc. For marine optics applications the LISST-200X provides the small-angle Volume Scattering Function.

LISST-STOKES



The world's first commercially available submersible instrument for measuring the depolarization ratio in situ.

Temperature and depth is included for each measurement along with the beam attenuation at the two wavelengths. Power is applied externally, either via an external power cable or an external battery pack.

Data processing is performed using MATLAB scripts, which are supplied open-source and free of charge with the instrument to the user. No Windows software exists or will be supplied for the LISST-STOKES; the user MUST have MATLAB and be proficient in its use to process LISST-STOKES data.



LISST-VSF: Optical Volume Scattering Function and Depolarization

World's first autonomous, submersible instrument for measuring the volume scattering function (VSF) of water with depolarization. Measures P11, P12 and P22 elements of Mueller matrix of water. Also beam attenuation c and scattering b .

The LISST-VSF covers the angular range from 0.094 to 150 degrees. Of this, the range 0.094 to 14.9 degrees is covered with Sequoia's 32-ring detector optics as in the LISST-200X. From 15 to 150 degrees scattering from the length of a laser is viewed by a rotating eyeball. These data produce P12 and P22.

LISST-ABS: Submersible Acoustic Backscatter Sediment Sensor

The first low-cost acoustic backscatter sensor designed specifically for measuring Suspended Sediment Concentration at a point.

- The 8MHz acoustic sensor 'sees' all size grains, and unlike OBS, it sees coarse grains very well.
- The LISST-ABS calibration is far less sensitive to grain size changes than OBS sensors, changing only $\sim \pm 30\%$ over 30-400 microns. Operates over a >4-decade working range in concentration!
- Tolerates fouling





LISST-Deep: Deep Ocean Laser Diffraction Particle Size Analyzer

The LISST-Deep instrument obtains in-situ measurements of particle size distribution, optical transmission, and the optical volume scattering function (VSF) at depths down to 3,000 meters.

The LISST-Deep extends operating depth range beyond the LISST-100X or LISST-200X instruments allowing measurements of particle size to be made with at 1 Hz with minimal disturbance to the particles.



LISST-Holo2: Holographic Camera for Flocs and Plankton

The LISST-Holo2 stores holograms for study of flocs, plankton, and other particles in water. It is an advanced successor to the original LISST-Holo.

This new version is the world's fastest, capturing holograms at 20Hz, [vs. 0.2Hz for the original LISST-Holo]. The same original housing now includes an 8-hr battery and 237GB of data memory. Processing speed per unit water volume imaged is faster than the competition. A unique new feature ranks thousands of holograms based on richness of imagery – a Sequoia innovation for fast overview of a collection of holograms.



LISST-Hydro: Particle Size Analyzer for Hydro Power Applications

This instrument system is designed to supplement Sequoia's LISST-Infinite instrument in hydro power monitoring applications or work as a standalone instrument for hydro power plants where the sediment concentrations do not exceed 700-8,000 mg/l.

Incorporating a complete optics and electronics system for measurement of size distributions and concentrations. Water is delivered to the system from the river via a pump, or from the hydropower plant via a pipe or hose, e.g. from the draft tube. A SCADA data display on a dedicated monitoring computer in the powerhouse is available.



LISST-SL: For Vertical Profiles of River Sediments

The LISST-SL (for StreamLined) is a multi-parameter river profiling instrument, measuring sediment size distribution and concentration, velocity, depth and temperature. For use in freshwater.

The streamlined body is a minimum drag shape. Twin fins below the body orient the LISST-SL facing upstream just before immersion. A pitot static tube on top of the body measures river velocity. The system employs active control of the intake pump that matches river velocity to intake velocity making the sample acquisition isokinetic. Diffracted light is measured in an included electro-optics section.



LISST-Infinite: Sediment Monitor for Protecting Hydro Turbines

Abrasion of turbines by sediments causes losses in millions of dollars. The loss can be avoided by installing this instrument. When dangerous conditions arise, it generates alarms so plant operators may shut power production.

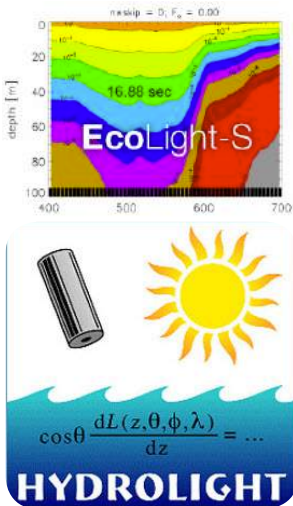
This instrument is based on laser diffraction technology (LD). This technology separates measured sediment concentration into harmless fines and harmful coarse grains. Coarse grain concentration data can be used to set off alarms when abrasive conditions arise. LD technology avoids false alarms and loss of generation revenue.



LISST-StreamSide: Particle Size Analyzer for Streams and Rivers

The LISST-StreamSide is developed specifically for monitoring applications, for example sediment monitoring in shallow streams and rivers or for storm runoff.

It can also be used as an in-line instrument system, for example in a flow-through system on a research vessel.



EcoLight-S

HydroLight is intended for stand-alone use as a research tool and has a user interface for entering the inputs needed to solve the RTE. EcoLight-S is a collection of subroutines to be imbedded in the user's own code and has no user interface or built-in bio-geo-optical IOP (inherent optical property; the absorption and scattering properties) or sky models. EcoLight-S is purely an RTE solver that emphasizes fast run times at the expense of (a user-selectable level of) accuracy.

HydroLight

The HydroLight radiative transfer numerical model computes radiance distributions and related quantities (irradiances, reflectances, diffuse attenuation functions, etc.) in any water body.

Trilogy Laboratory Fluorometer



The Trilogy™ Laboratory Fluorometer is a compact laboratory instrument for making fluorescence, absorbance and turbidity measurements using the appropriate snap-in Application Module.

Trilogy™ provides you with excellent sensitivity and measurement range. The all solid-state design ensures you will make reliable and repeatable readings.

Laboratory Meter for pH/ORP/conductivity/BOD



The YSI MultiLab line includes the 4010-1 (single channel) (E-528-1FD350Y) , 4010-2 (dual channel) (E-528-1FD460Y) and 4010-3 (three channel) (E-528-1FD470Y) instruments providing easy to use and calibrate menu-driven operation ideal for the laboratory.

- One channel input for pH, ORP, DO/BOD, or conductivity
- Data storage - 500 data sets in manual mode and 5,000 data sets in automatic logging mode
- Large, easy to read graphic display
- Intelligent, digital sensors - plug and play sensors bullets

TruLab® Laboratory Meters for pH/mV (ORP)/Temperature



Perform accurate lab pH, mV (ORP) and temperature measurements with the YSI 1110. TruLab 1110 pH/mV single channel benchtop instrument with BNC and two banana plug connectors. Includes instrument, universal AC power supply and electrode stand.

The YSI TruLab® line includes the 1110 (single channel), 1310 and 1310P (single channel) and 1320 and 1320P (dual channel) instruments providing easy-to-use and calibrate instruments ideal for the laboratory.

edge® – Multiparameter Meter (EC kit)



edge is thin and lightweight, measuring just 1/2" thick and weighing less than 9 ounces. edge has an incredibly wide viewing angle, 5.5" LCD and a sensitive capacitive touch keypad.

edge measures pH, conductivity and dissolved oxygen through its unique digital electrodes. These digital electrodes are auto-recognized. Providing sensor type, calibration data and serial number when connected to edge with an easy to plug-in 3.5mm connector. edge's versatile design is equally at home in your hand, on a lab bench or mounted on a wall. It simplifies measurement, configuration, calibration, diagnostics, logging and transferring data to a computer or a USB drive.

125MicroScale Conductivity and Temperature Instrument



The 125MicroScale Conductivity and Temperature Instrument (MSCTI) is designed to measure the electrical conductivity and temperature of solutions containing conductive ions. This instrument provides two analog outputs, one linearly proportional to the solution conductivity, and one non-linearly proportional to the solution temperature. The MSCTI makes rapid, small spatial resolution measurements of both parameters in laboratory situations.

Sensor shafts are custom produced according to user specifications. The sensor shaft is provided straight as standard, but they can be provided with a slight bend as well.

TruLine® Ion Selective Electrodes

Accurate measurement of effective ion concentration in the lab Measuring effective ion concentration with ion selective electrodes (ISEs) is important in applications such as wastewater, drinking water, environmental testing, and the food/beverage industry. The TruLine series of combination ISEs is designed to meet the most demanding challenges of determining effective ion concentration in the laboratory setting. The TruLine ISEs can be connected to the YSI TruLab 1320(P), the YSI MultiLab 4010-2 (with BNC adapter), the YSI MultiLab 4010-3 (with BNC adapter), and other ISE instruments that feature BNC connection. The TruLine ISEs are refillable and feature a built-in double-junction reference system, allowing for a long electrode life and optimum performance in the lab.

- Wide selection of 15 electrodes for 16 different parameters
- 4 sensor technologies - gas sensing, polymer/PVC membrane, solid state, glass sensor
- Combination (i.e. full-cell), refillable electrodes with double-junction reference*
- BNC connection, 3 foot cable
- Reference/electrode fill solution, ionic strength adjustor, and small bottle of standard** included with each ISE
- 12 month warranty for solid state, glass sensor, and gas-sensing ISEs;
- 9 month warranty for ISEs with polymer/PVC membrane



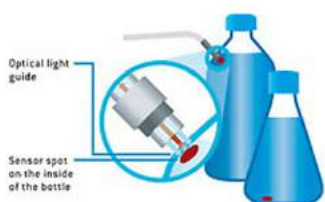
2D Sensing of Oxygen, pH, or CO₂



VisiSens TD is the first standardized system for time-domain fluorescence lifetime imaging. The modular system can be composed out of single components according to customer specifications.

It offers the key solution for oxygen, pH, or CO₂ imaging. Fluorescent sensor foils for the respective analyte are placed on the sample. Excitation light sources and cameras for sensor recording can be installed in a set-up specified by the customer. Sensor images up to a size of 30 cm x 25 cm can be recorded with VisiSens TD. The user-friendly system is delivered with a software which can be supplemented with certain modes according to the customer's requirements.

Non-Invasive Oxygen Sensors



The non-invasive optical oxygen sensors measure the partial pressure of both dissolved and gaseous oxygen. These sensor spots are used for glassware and disposables. The sensor spots are fixed on the inner surface of the glass or transparent plastic material.

The oxygen concentration can therefore be measured in a non-invasive and non-destructive manner from outside, through the wall of the vessel. Different coatings for different concentration ranges are available.

Fibox 4/Fibox 4 Trace Oxygen Meter



The Fibox 4 works with sensor type PSt3 (detection limit 15 ppb dissolved oxygen, 0 - 100 % oxygen). With the Fibox 4 trace additionally trace and ultra low oxygen concentrations can be measured. It is compatible with sensors type PSt3, PSt6 (detection limit 1 ppb dissolved oxygen, 0 - 4.2 % oxygen), and PSt9 (detection limit 0.5 ppm, 0 - 200 ppm gaseous oxygen).

The wireless Fibox 4 and Fibox 4 trace are designed for easy handheld use. Like all other PreSens transmitters they are temperature compensated systems and have additional automatic compensation for pressure and salinity.

Microx 4/Microx 4 Trace Portable Oxygen Meter



The Microx 4 & Microx 4 trace are completely stand-alone, portable fiber optic oxygen meters. They can be used with non-invasive sensors & probes (1 mm fiber) and oxygen microsensors (200 µm fiber) in different designs. The Microx 4 is compatible with the wide range sensors type PSt7 (detection limit 15 ppb, 0 - 100 % oxygen). The Microx 4 trace can additionally be used with sensors type PSt8 (detection limit 3 ppb, 0 - 10 % oxygen) for measuring oxygen traces.

OXY-4 mini/OXY-4 trace



The OXY-4 mini and OXY-4 trace are precise 4-channel fiber optic oxygen transmitters. They are used with oxygen sensors based on a 2 mm optical fiber. A PC is connected to run the easy to use software. OXY-4 mini is used for sensor coatings type PSt3 (0 - 100 % oxygen).

OXY-4 trace additionally works with the trace oxygen sensor coating type PSt6 (detection limit 1 ppb, 0 - 4.2 % oxygen).

OXY-10 mini/OXY-10 trace



The OXY-10 mini and the OXY-10 trace are precise 10-channel fiber optic oxygen transmitters. They are used with oxygen sensors based on a 2 mm optical fiber.

A PC is connected to run the easy-to-use software. OXY-10 mini is used for sensor coatings type PSt3 (0 - 100 % oxygen). OXY-10 trace additionally works with the trace oxygen sensor coating type PSt6 (detection limit 1 ppb, 0 - 4.2 % oxygen).

pH Transmitters



The pH-1 micro is a precise micro fiber optic pH transmitter. It is temperature compensated and used with pH microsensors based on a 140 μ m optical fiber. A PC is connected to run the easy-to-use software. On top, analogue outputs and a trigger input are integrated.



The pH-4 micro is a precise 4-channel micro fiber optic pH transmitter. It is used with pH microsensors based on a 140 μ m optical fiber. A PC is connected to run the easy-to-use software.

SDR - SensorDish® Reader



The SDR SensorDish® Reader is a small 24-channel reader for non-invasive detection of oxygen and pH in multidishes (SensorDishes®). These contain a sensor spot at the bottom of each well. They are read out non-invasively through the transparent bottom. SensorDishes® for oxygen (OxoDish®) and pH (HydroDish®) are available in the 24-well and 6-well format. Deep well plates with integrated oxygen sensors (OxoDish®-DW) allow measurements in shaken cultures. Read out of oxygen sensors integrated in glass vessels for respiration monitoring is also possible. The SensorDish® Reader can be used in incubators and on shakers and is thus the ideal tool for cell cultivation.



Microsensors

Oxygen Microsensors

Needle-type oxygen microsensors are miniaturized chemical optical oxygen sensors designed for all research and packaging applications where a small tip size ($< 50 \mu\text{m}$) and fast response time ($t_{90} < 1\text{s}$) are necessary. The optical oxygen microsensors are based on a $140 \mu\text{m}$ silica fiber and are available with two different sensor tip diameters, a $< 50 \mu\text{m}$ tapered tip and a $140 \mu\text{m}$ flat-broken tip. The oxygen microsensors are mounted in different housings (needle-type housing, implantable) and offer a unique research tool for investigating systems where micro-invasive, small and robust sensors are needed.

pH Microsensors

pH Microsensors are miniaturized pH sensors designed for measuring in small volumes and high spatial resolution. The sensor tip is below $150 \mu\text{m}$. The sensors are based on a $140 \mu\text{m}$ silica fiber which enables integration into a manifold of small scale environments. These sensors do not require reference electrodes and there is no leakage of electrolytes, a clear advantage over common electrodes.

Individual Test Kits and Screening Instruments

Insta-Test Strips



We carry a wide assortment of multi and single-factor test strips.

Multi-Factor

Insta-Test Chlorine
Insta-Test 6-Way Drinking Water
Insta-TEST Copper and Iron Kit
Insta-TEST® Wide Range
Total Chlorine & pH
Iron, pH, and Hardness
Nitrate & Nitrite
Insta-Test 5-Way

Single-Factor

Free Chlorine Low Range
Total Chlorine Low Range
Total Chlorine
Hardness Low Range
pH Wide Range
Peracetic Acid
Peracetic Acid Low and High Range
Insta-TEST® Peroxide

Test Papers



Chlorine - chemically treated to indicate sanitizer levels. Range and sensitivity is 10, 50, 100, 200 ppm (200 strips).

Iodine - A convenient way to test Iodine in water with fast results. Range and sensitivity is 0, 30, 60, 120, 180 ppm.

QAC Test Papers - Chemically treated paper strips change to indicate sanitizer level. Strips and color chart are packaged in a waterproof plastic vial. 2951 is specifically formulated to read all types of QAC.

High Range QAC - specifically formulated to read high range levels of QAC. Range and sensitivity is 200, 400, 600, 1000, 1500 ppm.

ColorQ DW Test Kit



ColorQ DW Photometer kit is the ultimate on-site, hand-held photometer for testing drinking water. The large digital display eliminates the guesswork with traditional color matching methods.

Measures 7 factors important to the drinking water professional including Hardness, pH, Iron, Nitrate, Free Chlorine, Total Chlorine, and Sulfide.

Kit # 2059 includes the ColorQ DW Photometer, testing solutions, illustrated instructions and a sturdy carrying case.

AR Drinking Water Test Kits



The Popular AR-02 outfit provides tests for Hardness, Iron, and pH. Drop count tests for Hardness (10 ppm or 1 gpg/drop). Octa-Slide tests for Iron (0.5-10 ppm) and pH (5.0-10). Includes 100 tests for Iron and 50 tests for each pH and Hardness.

The Model AR-42 has the same test range for pH, Hardness, and Iron as the AR-02, but it also is equipped to test for Sulfide (0.2-20 ppm). Includes 50 tests for pH, Hardness, and Sulfide; 100 tests for Iron.

Drinking Water - Individual Test Kits



Specific to your drinking water treatment and monitoring needs. Each individual test kit is furnished in a compact carrying case with all labware, accessories, and reagents needed to perform the test. Step-by-step instructions included. A Reagent Refill Package may be ordered by prefixing "R-" to the code number of the kit.

Alkalinity	Chloride	Copper	Nitrate	Sulfate
Aluminum	Chlorine	Hardness	Nitrogen	Sulfide
Arsenic	Chlorine Bleach	Iron	Ozone	Tannin
Bacteria	Coliform	Manganese	pH	

Water and Wastewater - Individual Test Kits

Acidity	Chelant	Formaldehyde	Oxygen, Dissolved	Sodium
Algae	Chloride	Glutaraldehyde	Ozone	Sodium Nitrite
Alkalinity	Chlorine	Hardness	Peracetic Acid/	Sulfate
Aluminum	Chromate	Hydrazine	Hydrogen Peroxide	Sulfide
Ammonia Nitrogen	Chromium	Hydrogen Peroxide	pH	Sulfite
Arsenic	Coliform	Iodine	Phosphate	Tannin/Lignin
Bleach	Colour	Iron	Phosphonate	Tolcide PS Biocide
BOD	Copper	Lead	Polyphosphates	Total Dissolved Solids
BRICORR THPS	Cyanide	Manganese	Polyquat	Turbidity
Bromine	DEHA	Morpholine	Potassium	Zinc
Cadmium	Detergents	Nickel	QAC	Molybdate/Molybdeum
Calcium	Dissolved Oxygen	Nitrate Nitrogen	Salinity	
Carbon Dioxide	Filming Amine	Nitrate, Sodium	SDMBT	
Caustic	Fluoride	Nitrite Nitrogen	Silica	

UV/VIS Spectrophotometer



- Programmable wide range spectrophotometer accepts up to 200 curves in memory
- Pre-programmed to analyze selected tests on a direct-reading digital display
- Advanced key pad with 22 buttons simplifies data entry
- Includes 2 quartz 10mm square cuvettes and 6 round 25mm 10mL test vials

Spectro Spectrophotometer



A portable spectrophotometer that is easier to use and more accurate than anything in its price range. Over 80 pre-programmed tests included, and 25 user calibrations can be entered into the memory.

The user can also customize sequences for frequently run tests.

- A wider wavelength range
- Menu-driven display
- Pre-programmed tests with 25 user tests
- Automatic wavelength selection
- Unique optical design system using a 1200 lines/mm grating

Corrosion Control Kit (CCK)



By determining corrosive conditions in water supplies, this test kit supports a water supplier lead in drinking water abatement program. Each unit includes tests for P and T alkalinity, calcium hardness, temperature, pH, phosphates, and total dissolved solids. Calculate saturation index by the Langelier method to indicate the corrosive conditions in water supplies. The Model CCK Corrosion Control kit is packaged in a portable carrying case for on-site use.

Storm Drain Water Monitoring Kit (SSDK)



The Model SSDK Detection Kit was specifically designed and manufactured to meet US EPA requirements for field test procedures approved in the November 16, 1990 Federal Register to monitor illicit storm drain connections. Each unit includes tests for pH, Total Chlorine, Total Copper, Phenols, Detergent surfactants, Color and Turbidity.

i3XO EcoMapper Autonomous Underwater Vehicle (AUV)



The next generation of autonomous water quality vehicles. The i3XO EcoMapper generates high-resolution maps of water quality, water currents, bathymetry, and sonar imagery. The i3XO is the combination of the latest in water quality and AUV's combined into one robust monitoring platform.

The i3XO AUV will provide high resolution water quality data, side scan sonar imaging, downward looking current profiling, and bathymetric surveying. Used by government agencies, military, universities, contractors, and private organizations, the versatility of the i3XO is perfect for all your monitoring requirements.

EMM350 Pisces

Pontoon for In-situ Characterization of Environmental Systems



The EMM350 PISCES is a lightweight pontoon platform which supports water quality, water velocity, and meteorological sensors as well as computer logging systems. Housing it's payload are two topside aluminum chests that contain the data acquisition system, cellular modem, and battery. The chests are easily serviceable from the water and accommodate multiple underwater cable connections.

EMM 2.0 Coastal Buoy

Large buoy designed for long-term monitoring in harsh environments



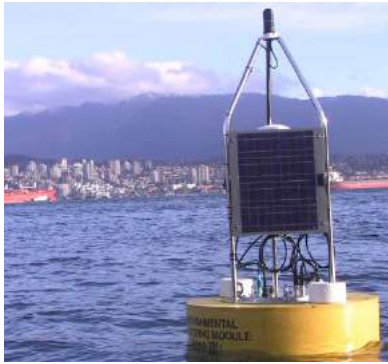
This ocean-capable buoy supports a full array of water quality sensors, data acquisition systems, and meteorological sensors. Its hull and structure are rugged enough to withstand significant wind and wave activity in ocean applications in less than 75 meters of water depth.

EMM68 Harbour Buoy

Small buoy for easy access to water quality data



Quickly deployed environmental monitoring buoy with telemetry and data acquisition electronics. This buoy is ideal for project-based deployments; it simplifies installation by eliminating the need for a crane, divers and large service equipment.



EMM700 Bay Buoy

Designed for long-term water quality monitoring in surface water

The bay buoy is a medium-sized platform suitable for near-shore and inland water applications. It is designed around logging, sensors, and remote telemetry. The bay buoy platform will deliver data for years, making it suitable for research and long-term monitoring applications.



EMM25 Sonde Spar Buoy

The EMM25 Sonde Spar Buoy is designed to be a low cost option for short and long term monitoring. It's simple-to-use design allows for rapid deployment for event monitoring and emergency response. The lightweight design allows for the system to be deployed by a single person; it can be deployed from a small boat or from shore.



6950 Fixed Vertical Profiler

Automated water quality profiler from dam, pier or piling

Featuring a NEMA 4 enclosure and a rugged non-corrosive mechanical winch and drive mechanism, the 6950 provides fully-automated data collection from a fixed location.



Pontoon Vertical Profiler

Automated water quality profiler for lakes, reservoirs and coastal areas

Featuring a submersible, watertight enclosure and a rugged non-corrosive mechanical winch and drive mechanism, the 6951 provides fully-automated data collection from a pontoon float.



Vertical Profiling Systems

For watersheds, source water and reservoir monitoring, YSI Vertical Profiling Systems provide reliable, fully-automated data collection. These water quality profilers are available in 3 different deployment configurations, each featuring:

- Rugged, non-corrosive winch and drive mechanism
- Software for easy set-up, deployment, water quality analysis and export
- User-selectable sample intervals

EXO Link



The YSI EXO Link is an adapter that interfaces with any EXO series sonde. The adapter integrates any EXO sonde into an existing 6-Series platform and fits in-line with the EXO sonde on the end of a 6-Series cable.

- Compatible with the Vertical Profiler, Pisces Platform, All Buoy Systems, Fixed Data Collection Platforms
- Neutrally Buoyant
- In-line strength member
- Rugged PVC Pressure Case

Water Sampling



YSI ProSample Automated Sampler

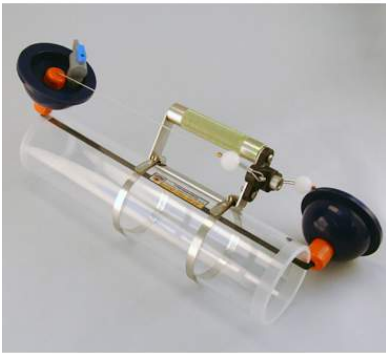
Lightweight and easy to use, the samplers come with a proprietary peristaltic pump for highly accurate sampling based on time, flow or weather event. Once an event occurs, or during normal operation, the log data is easily extracted from the sampler via a USB and can be taken to a PC for further evaluation.

- Robust PE, double-walled, insulated housing for temperature control
- Easy tube replacement for minimal downtime
- Spring-loaded roller bearings in peristaltic pump providing longer tubing life, up to 20% longer than competition
- Highly accurate sample volume using two captive sensors in the peristaltic pump for volume control
- User-friendly, simple programming and calibration from sampler or PC
- Long battery life - up to 550 samples per battery charge
- Data recovery via USB and does not require direct transfer to a laptop

Swing Sampler



This Swing Sampler is specially designed for collecting a sample from a flowing stream or river. The end of the sampler swings, allowing collection from different angles, including 90°. The 6-ft. fiberglass pole extends to 12 ft., making this sampler extremely versatile. Unit comes with a 960 ml polyethylene bottle with a leak-proof cover that is held in place with an adjustable locking plastic snapper ring.



Van Dorn Bottles

Horizontal/Vertical - PVC/Acrylic; 2.2 to 8.2 L

Alpha Water Sampler

- Blue seals of durable, flexible, high-grade polyurethane resin with attached safety line
- 316 SS trip head for durability
- Not suitable for chemical sampling
- Kits include bottle, plastic carry case, messenger & line (100 ft.)
- Single bottles & bottles with cases available

Beta Water Samplers

- No metal parts to touch your sample
- Kits include bottle, plastic carry case, 45-B10 messenger & line (100 ft.)
- Bottles & bottles with cases also available



Kemmerer Bottles

Kemmerer Sampler Kit, Trace Metals

- All plastic construction
- Clear acrylic or opaque PVC bottle body
- PVC center shaft
- No metal parts to touch your sample
- Silicone seals for trace metal sampling
- Large range of sizes - 1.2 to 8.2 L

Kemmerer Sampler, Teflon, 1.2L

- No metal parts to touch your sample!
- Teflon cylinder, 1.2 liter, ID: 57 mm (2.2")
- Teflon end seals; Teflon trip head
- Solid Teflon rod for strength avoids trapping chemicals

Kemmerer Water Sampler, Extreme, SS/Teflon, 1.2L

- For tough industrial uses - solvents, acids and bases
- Use up to 450° F
- Constructed of 304 and 316 SS and Teflon except for screws and springs which are 18-8
- Good for sampling trace organics
- Teflon end seals are non-organic and temperature resistant, making them an ideal and cost-effective choice for chemical testing
- Requires a messenger and line or cable (not included, except in kits) for operation

Kemmerer Water Sampler, SS/Silicone 0.4L and 1.2L

- Intended for trace organic sampling
- The main tube is stainless steel with silicone seals
- Metal parts are 316 or 304 stainless steel except fasteners and plastic-coated cables of 18-8 steel



Niskin Bottles

- Niskin Horizontal Water Sampler
- Non-metallic water sampler with capacity for 5L sample
- Operates horizontally on a wire only
- Weight empty 8 lbs. (3.6kg)
- Length 27.2"

Niskin 10L External Spring Water Sampler

- With reversing thermometer rack assembly
- Thermometers sold separately

Niskin X External Spring Water Sampler

- PVC tube, Mounting blocks (aluminum on 30L and greater) end plugs, handles and ball valve(1080)
- Delrin stopcocks, air vent screws and push rod
- Stainless steel cable clamps. Buna-N, Viton, or silicone seals
- Sampler sizes: 1.2, 1.7, 2.5, 5, 8, 10, 12, 20, and 30 litres

Model 1010 Niskin Water Sampler

- Non-metallic free-flushing sampling bottles
- Activated by GO Devil messenger (1000-MG) when individually or serially attached to hydrocable
- Sequential closure by remote command with model 1015 Rosette® multi-bottle array, or with model AR1015 Acoustic Command Control option

Model 1010-ROV Niskin 2.5L Water Sampler

- Non-metallic, free-flushing sampling bottle activated by a unique end stopper triggering mechanism
- Release mechanism allows the end stopper to close by simply pulling on a lanyard loop

Model 1010C Niskin Convertible Water Sampler

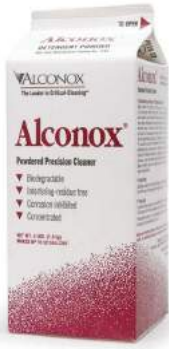
- Non-metallic free-flushing Sampling bottles activated by GO Devil messengers (1000-MG) when attached to cable/rope
- Adjustable overhead bail allows the sampling bottle to be used in the vertical or horizontal position
- Quick release pins facilitate easy change from vertical to horizontal sampling positions without change of the lanyard lengths
- Lowering line passes through the push rod (release) cap to insure positive activation by the messenger

GO-FLO Sampling Bottle

- Features an close-open-close operation
- Opens automatically (hydrostatic pressure activated) at approximately 10 meters (33 feet)
- Flushes until closed by standard GO Devil messenger (model 1000-MG) individually, serially, or sequentially by remote command with a model 1015 Rosette® multi-bottle array, or with model AR1015 Acoustic Command Control
- Inert gas can be injected into bottle to force retrieved sample out of sampling valve, directly through filter system

Mini Rosette Bottles

- Sampler sizes: from 30 ML to 5 Litres



Alconox Cleaning Solution

This powdered cleanser can be used in hot, warm, or cold water and is biodegradable, odorless, and mild (pH 9-9.5). It is completely soluble and leaves no residue after proper rinsing. Its special formulation inhibits corrosive action on most metals and is ideal for removing soil and grit from glass, metal, plastic, rubber, and hard surface materials. It also easily removes blood and fats. ALCONOX's high potency and instant high wetting action - along with its penetrating, sequestering, and emulsifying power - ensure top performance, making it an excellent choice for manual and ultrasonic cleaner use. It is recommended for use at a 1% solution.



Braided Polyester Line

Braided polyester line has less stretch than nylon line and lasts longer than twisted line. It is woven in such a way that fraying occurs only on the surface without material loss of strength; when the braided jacket becomes fuzzy, you know it's time for a replacement.

- E-411-62-C15: 3/16in, Polyester, 100ft
- E-411-62-C50: 3/16in, Polyester, 100m
- E-411-62-E10: 3/16in, Polyester, 1500ft roll



General Purpose Winch Mount, Steel

For 66-C10 winch and light-weight samplers! This extremely versatile device is designed for use with 66-C10 winch [or another with 102 x 140 mm (4 x 5-1/2") mount]. Simple and easy to use, it clamps to the side boards or transom of a small boat. Clamp opening is 51 mm (2"). Includes clamp.

- Height: 400 mm (15.75")
- Width: 102 mm (4")



General Purpose Winch, Zinc Plated Steel

This heavy-duty zinc-plated steel winch is designed for use with any line and instrument weighing up to 1,000 lbs. It can - and should be - used with virtually any Wildco® grab. Use requires 66-C52 Utility Winch Mount.

- Holds 120' of 5 mm (3/16") line
- Holds 250' of 3 mm (1/8") cable
- Mounts with included hardware
- 178 mm (7") outer flange diameter, ~25 mm (1") drum
- 1:1 ratio - one crank rotation turns the cable drum once



Stainless Steel Aircraft Cable, 1/8in, 100ft

Recommended for heavier bottom dredges or core samplers, or wherever you need a winch. It affords great strength coupled with light weight and flexibility. It's easy to attach with included hardware.

- 7 lays - 19 strands per lay
- Diameter: 3 mm (1/8")
- Max load: 400 lbs (180 kg)
- Includes: thimble, shackle, and four cable clamps.



Pocket Thermometers

- -5 to 45 C, with ½ degree divisions
- Pocket thermometers are furnished in protective cases with a pocket clip or as a refill thermometer only.
- Length approximately 5-1/2"
- Mineral spirit filled



Non-Metallic Solid Messenger - White PVC, 11 ounce

A solid messenger with a slightly tapered nose. This stainless steel messenger is coated with a layer of Teflon to reduce possible contamination from handling and impact. Use with non-metallic samplers such as Teflon Kemmerer or Beta Water Sampler.



Stainless Steel Solid Messenger

The solid messenger stays on your line at all times: it is as secure as the knot you tie at the end. Thread it on like a bead, use the same line for each sample you take. Constructed of 316 stainless steel with a tapered nose. Particularly recommended for short lines less than 20 m in length or for student use.

- For lines shorter than 29 m (65')
 - Fits 3 to 6 mm (1/8 to 1/4") line
- E-411-46-D90 - Each, SS, 11 ounce
E-411-46-D80 -Each, SS, 8 ounce



Stainless Steel Split Messenger

Our most versatile messenger: can be placed anywhere on your line, not just at the end. Corrosion resistant 316 stainless steel with a split barrel and tapered nose. Literally comes on and off with one hand, a great boon in sloppy weather. Position your bottle first, then attach the messenger and let it fall. In this way you will not trigger your bottle too early. Includes a spring to hold barrel closed and a hole for attaching a lanyard for series sampling.

- Fits 3 -6 mm (1/8"-1/4") line
- Hugs your line
- On & off with one hand

E-411-45-B10 - SS, 11 ounce

E-411-45-B12 - Pack of three, SS, 11 ounce

E-411-45-B20 - Stainless Steel Split Messenger, SS, 8 ounce

Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing
Environmental Monitoring
Test & Measurement Instrumentation

Hoskin Scientific operates out of three offices within Canada with an additional service centre in Edmonton, AB :

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salesm@hoskin.ca

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edmontonservice@hoskin.ca

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