

# RENTALS CATALOGUE

---







## RENTALS

Hoskin Scientific and Avensys 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.

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 and Avensys offer 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 [Hoskin.ca](http://Hoskin.ca) or [Avensys.com](http://Avensys.com) for current offerings.**

# Table of Contents

## Air & Gas

o BIOS Air Calibrator .....	9
o RKI GX-3R Pro Gas Detector Confined Space Monitor .....	9
o RKI Eagle 2 Analyzer .....	9
o RAE Systems MiniRAE 3000 - VOC monitor .....	10
o DiElectric MGD-2002 Helium Detector .....	10
o Gilair Air Plus Sampling Pump .....	10
o Dwyer Handheld Digital Manometer .....	10
o SKC Vac-U-Chamber Air Sampling System .....	11
o CTi Fixed Flow Regulator 0.5 LPM .....	11
o TSI 7585 Q-Trak XP .....	11
o RKI GX-6000 .....	11
o TSI VelociCalc Ventilation Meter .....	12

## Groundwater

o Hobo U20 Water Level Data Logger .....	14
o Spectra Field Pro III Peristaltic Pump .....	14
o Spectra Bladder Pump Sil 2.0 .....	14
o Waterra SS Monsoon Pump .....	15
o Geotech Geocontrol Pro .....	15
o Waterra Hydrolift II .....	15
o Honda Generator .....	15
o Heron Dipper-T .....	16
o Heron Skinny Dipper .....	16
o Heron H.Oil Interface Meter .....	16
o Solinst Levellogger® 5 Water Level Dataloggers .....	16
o Geotech Bladder Pump .....	17
o Heron Dipper-See EXAMINER Downhole Camera .....	17
o Waterra 1 Up Peristaltic Sampling Pump .....	17
o Spectra Hydro Controller .....	18

Table of Contents

Limnology & Fisheries Equipment

o Smith-Root LR-24 ..... 20

o Smith-Root eDNA Sampler ..... 20

o Wildco Hand Corer ..... 20

o Wildco Heavy K-B Corer ..... 21

o Wildco Hess Sampler ..... 21

o Wildco Petite Ponar Grab ..... 21

o Wildco Standard Ponar Grab ..... 21

o Wildco Standard Ekman Sediment Sampler ..... 22

Moisture Density Gauges

o Transtech SDG200 Soil Density Gauge ..... 24

o S.E. International Radiation Survey Meter ..... 24

o Instron Xplorer 2 Nuclear Moisture/Density Gauge ..... 24

o Troxler Moisture / Density Gauge ..... 24

o Transtech PQI380 Pavement Quality Indicator ..... 25

o Instron CPN Nuclear Gauges ..... 25

o Instron Xplorer 3500 Nuclear Gauge 12" ..... 25

Soil

o METER Tempos Thermal Prop Analyzer ..... 27

o Guelph Permeameter Kit ..... 27

o Eijkelkamp Edelman Hand Auger ..... 27

o Eijkelkamp Riverside Hand Auger ..... 28

o Eijkelkamp Spiral auger, bottom part, bay., Ø 4 cm ..... 28



# Table of Contents

## Sound and Vibration

o Sonitus EM2030 Sound Level Monitor - Class 1 Sound Level Monitor .....	30
o Ava Monitoring M80 Vibration Monitor .....	30

## Water Measurement

o SonTek rQPOD Remote Surface Water Vehicle .....	32
o Sontek-IQ Plus .....	32
o Sontek RiverSurveyor M9 .....	32
o Sontek RS5 RiverSurveyor .....	33
o HR Wallingford ARC-Boat .....	33
o SonTek FlowTracker2 Handheld ADV .....	33
o Aqua Data Fluvia RC3 Velocity Meter .....	33
o Aqua Data FloStick RC4 .....	34
o CEE-LINE Single Beam Echo Sounder .....	34
o Sommer TQ Tracer System / Mobile Discharge Measurement .....	34
o OTT MF Pro - Water Flow Meter .....	35
o Swoffer 2100 C140 Current Meter .....	35
o DXN Portable Hybrid Ultrasonic Flow Meters .....	35
o ISCO Signature Laserflow .....	36
o ISCO Duratracker® Flow Logger .....	36
o ISCO TIENet Sensors .....	37
o Ayyeka Level/Flow Web Based Data Logger .....	37
o Palmer-Bowlus Flume .....	37

Table of Contents

Water Quality

o YSI 9500 Photometer ..... 39

o YSI EXO2 Water Quality Sonde ..... 39

o YSI EXO3 Water Quality Sonde ..... 39

o YSI X2 Telemetry Logger (Cellular/Iridium options available) ..... 40

o YSI EXO1 Water Quality Sonde ..... 40

o Hanna Free and Total Chlorine Portable Photometer ..... 40

o Lamotte Turbidity Meter, 2020we & 2020i ..... 40

o Turner Designs Aquafluor ..... 41

o SonTek Castaway CTD ..... 41

o YSI EXO1s Water Quality Multi-parameter Sonde ..... 41

o YSI Pro1030 ..... 41

o YSI ProODO ..... 42

o YSI ProPlus Quatro ..... 42

o YSI ProDSS ..... 42

o Ocean Sonics icListen Hydrophone ..... 42

o Federal Snow Sampler ..... 43

o HOBO U26 ODO Logger ..... 43

o Wildco Kemmerer Bottles - 2.2L or 4.2L ..... 43

o Wildco 2.2L and 4.2L Beta Bottle Water Column Sampler ..... 43

o Wildco 2.2L Alpha Bottle, Horizontal Acrylic ..... 44

o Hemisphere S321 Smart Antenna ..... 44

o ISCO 6712 Full-Size Portable Sampler..... 44

o ISCO 700 Level/Flow Modules..... 45

o ISCO GLS Compact Composite Sampler ..... 45

o BLZZRD Portable Refrigerated Wastewater Sampler ..... 45

o Volucalc Pump Station Monitor ..... 46



# Table of Contents

## Miscellaneous

o Rugby 810 Horizontal Laser Level .....	48
o Grabner Instruments MINIVAP VP Vision .....	48
o Schonstedt Magnetic Pin Finder .....	48
o dell Latitude E6420 XFR Fully Rugged Laptop .....	49

**Daily, weekly and monthly rental rates available**  
**Contact us for a quote!**

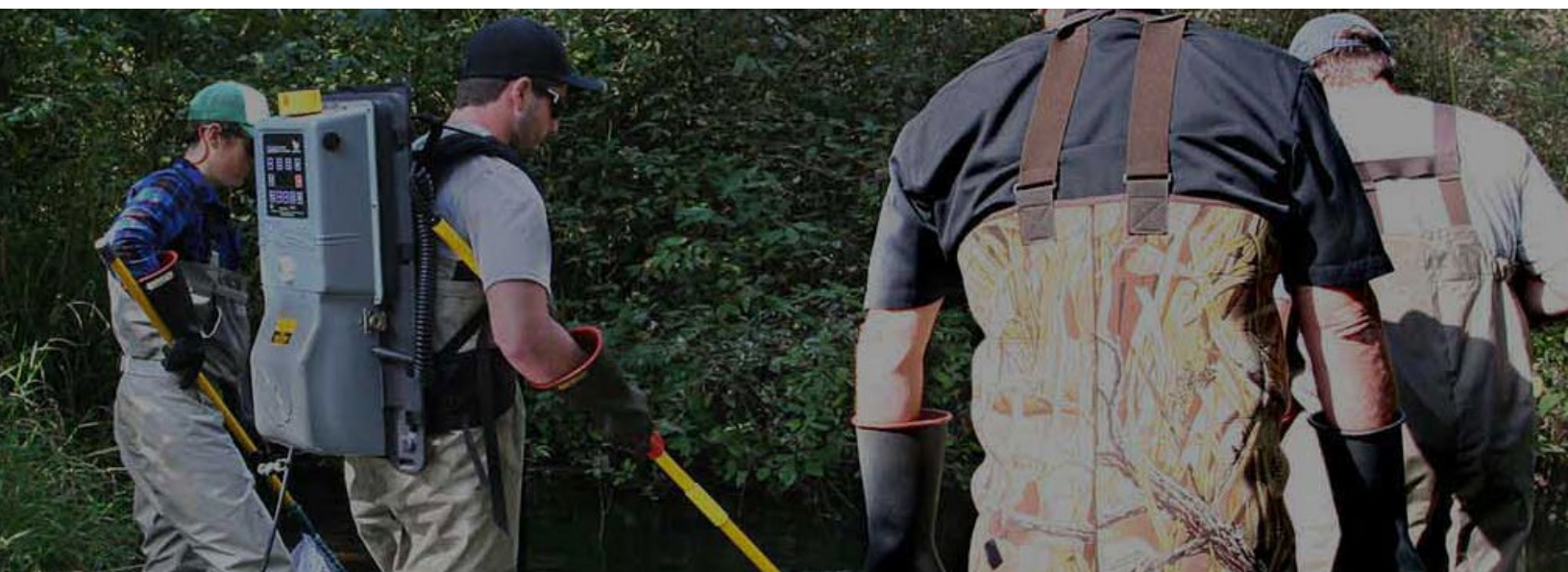
**British Columbia & Yukon**  
 3735 Myrtle Street  
 Burnaby, BC  
 V5C 4E7  
 T: (604) 872-7894  
 F: (604) 872-0281  
[vancouverrentals@hoskin.ca](mailto:vancouverrentals@hoskin.ca)

**Prairie Provinces, Nunavut & NWT**  
 11540 184 St NW  
 Edmonton, AB  
 T5S 2W7  
 T: (780) 434-2645  
[edmontonrentals@hoskin.ca](mailto:edmontonrentals@hoskin.ca)

**Ontario & Atlantic Canada**  
 #5-3280 South Service Rd, W  
 Oakville, ON  
 L6L 0B1  
 T: (905) 333-5510  
 F: (905) 333-4976  
[oakvillerentals@hoskin.ca](mailto:oakvillerentals@hoskin.ca)

**Québec**  
 300 Rue Stinson  
 Montréal, QC H4N 2E7  
 T: (514) 735-5267  
 F: (514) 735-3454  
[locationmontreal@hoskin.ca](mailto:locationmontreal@hoskin.ca)

*Products and models offered are subject to change without notice, see local rental office for clarification.*





# Air & Gas



## Air & Gas



**510L**

### BIOS Air Calibrator (Flow Meter)

For use with an air sampling pump to calibrate or measure air flow.

#### MODEL DEFENDER 510L FEATURES:

- +/- 1% accuracy volumetric calibration for personal air samplers and other volumetric instruments
- Low flow range
- Flow rate: 5mL – 500mL/min



**510M**

#### MODEL DEFENDER 510M FEATURES:

- 1% accuracy volumetric calibration for personal air samplers and other volumetric instruments
- Flow rate: 50 to 5000 ml/min
- Includes lead-acid battery and charger

## RKI GX-3R PRO GAS DETECTOR CONFINED SPACE MONITOR

The GX-3R is the worlds smallest 4 gas monitor which can comfortably be clipped within a worker's breathing zone (2.2" W x 2.55" H x 1.02" D).

#### FEATURES

- Smallest & lightest detector 2.9"W x 2.6"H x 1.06"D , 4.58 ounces
- Detects: LEL/O2/H2S/CO/CO2
- Simple 2-button operation
- Bluetooth communication with iOS & Android App
- Non-Compliance Indicator
- 3 user adjustable alarm levels
- Panic & Man-down alarms



## RKI EAGLE 2 ANALYZER

Powerful long-life pump up to 125' range, low flow pump shut off and alarm, methane elimination for environmental use, internal hydrophobic dust filter, external probe with hydrophobic filter.

#### FEATURES

- 4 Detection Models available
  - Hydrocarbons
  - VOC's
  - Hydrocarbons + VOC's
  - 6x gas unit (VOC's, LEL, CO, CO2, O2, H2S)



## RAE SYSTEMS MINIRAE 3000 - VOC MONITOR

Hand-held portable photoionization detector (VOC's).

### FEATURES

- 0 to 15,000 PPM (STEL, TWA, PEAK)
- Built-in sample pump draws up to 100ft/30m horizontally or vertically
- Data Log (up to 267 hours @ 1 min interval)
- 350 compounds correction factors  
- measure more than any other PID

### APPLICATIONS

- Environmental Site Surveying
- Industrial Hygiene/Safety
- HazMat/Homeland Security



## DIELECTRIC MGD-2002 HELIUM DETECTOR

Pinpoint accuracy with sensitivity from 25 PPM up to 100% concentration, operates in automatic (survey) mode or manual mode, utilizes Helium as a tracer gas, field replaceable moisture removing cartridge in wand.

### FEATURES

- Lightweight, telescoping ground probe with boot
- Rapid charging Ni-MH battery with AC and car adaptors



## GILAIR PLUS AIR SAMPLING PUMP

The GilAir® Plus features wide dynamic flow and pressure ranges to address all personal air sampling methods. With patent pending QuadModeSM air sampling technology, the GilAir Plus can perform both with a single pump without external adaptors.

### FEATURES

- Flow ranges between 20 and 5,000 cc/min
- High-flow constant pressure and constant flow (450-5,000 cc/min)
- Low-flow constant pressure and constant flow (20-499 cc/min)
- Samples particulates, vapors, gases, and metal fumes
- Works with all common sampling media



## DWYER HANDHELD DIGITAL MANOMETER

Selectable Pressure Units,  $\pm 0.5\%$  Accuracy, FM, approved Intrinsically Safe for Hazardous Locations, Class 1, Div. 1, Group A, B, C, D, T4. **Applications:** field calibration, monitoring or troubleshooting HVAC systems, clean room checks.

### FEATURES

- Range: 0 to 20" w.c. (0 to 4.982 kPa)
- Accuracy:  $\pm 0.10\%$  FS from 60 to 78°F (15.6 to 25.6°C);  
 $\pm 1\%$  FS from 32 to 60 and 78 to 104°F (0 to 15.6 and 25.6 to 40°C).





## SKC VAC-U-CHAMBER AIR SAMPLING SYSTEM

The SKC Vac-U-Chamber is a rigid air sample box that allows sample bags to be filled directly by using negative pressure provided by most personal air sample pumps. Tedlar bags sold separately.

### APPLICATIONS

- Stack sampling
- Ventilation studies
- Hazmat testing
- Soil gas sampling
- Groundwater testing
- Ambient or indoor air sampling
- EPA Method 0040



## CTI FIXED FLOW REGULATOR 0.5 LPM

A calibration gas regulator ensures that the gas flows at a predetermined rate, providing consistent results and maintaining the integrity of your processes. Offered with either aluminum or stainless steel threads. Stainless steel threads prevent thread galling, and provide extra durability for field use when constantly switched between bottles.

### FEATURES

- Compatible with 105L aluminum cylinders



## TSI 7585 Q-TRAK XP

The Q-Trak XP Indoor Air Quality Monitor Model 7585 unites gas and particle measurements with traditional IAQ parameters—in one lightweight, handheld instrument that is easy to use, configure and calibrate in the field. Designed for IAQ and industrial hygiene professionals, this monitor allows you to add or change gas sensors, so you can expand your indoor air quality assessment capabilities.

### FEATURES

- Measures: Dew Point, Wet Bulb, Barometric Pressure, CO<sub>2</sub>, CO, Temp, RH, PM<sub>1</sub>/2.5/10
- Measures PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub> size fractions and total particle concentration



## RKI GX-6000

Simply put, the GX-6000 is a game changer. This powerful hand-held PID gas monitor is capable of simultaneously monitoring up to 6 gases. The GX-6000 is equipped with a strong internal sample pump in addition to advanced safety features.

### FEATURES

- Dust and water resistant enclosure with an IP-67 rating.
- 5 bright LED lights on 3 sides of the instrument.
- View Alarms easily from a variety of perspectives.
- The unit comes standard with: LEL, H<sub>2</sub>S, CO, O<sub>2</sub>. With the option of two smart sensors: VOC (0-6,000ppm), VOC (0-50,000ppb), CO<sub>2</sub> (0-10,000ppm), CH<sub>4</sub> 0-100% LEL



## TSI VELOCICALC VENTILATION METER

The high-resolution color screen displays multiple measurements simultaneously in real-time with on-screen prompts to guide you through instrument setup and operation.

The VelociCalc® Multi-Function Ventilation Meter 9600 series includes a built-in workflow for calculating the percentage of outside air used to determine ventilation effectiveness in a building or room. The VelociCalc® Pro adds built-in workflows for heat flow calculation and four methodologies for performing a duct traverse.

It's ergonomic design includes a probe holder and integrated magnets allowing for attachment to exposed ductwork, chemical fume hoods and biological safety cabinet frames for hands-free operation. These instruments are available with or without a differential pressure sensor, and are designed to work with a wide range of plug-in probes.

### FEATURES

- Large, high-resolution color display
- Intuitive menu structure allows for ease of use and setup
- User-customizable soft keys for quick access to common functions
- Integrated magnets for hands-free operation
- Measures air temperature, RH, Barometric pressure, velocity







# Groundwater

## Groundwater

### Hobo U20 Water Level Data Logger



The HOBO U20 combines the ease-of-use, high accuracy and durability for all water level and temperature monitoring needs. Its compact size and stainless steel cover makes it ideal for shallow wells, streams, lakes and freshwater wetlands. Can record up to 27,000 measurements of temperature and pressure. Rental includes optic base station and free software for data extraction and manipulation. Available in four depth ranges: 0-4m, 0-9m, 0-30m, 0-76m



### SPECTRA FIELD PRO III PERISTALTIC PUMP

Waterra Spectra Field Pro Peristaltic Pump with EZ-Load II, Analog controls, internal battery & cables. **Applications:** low flow sampling.

#### FEATURES

- Flow Rate: 25 - 650 ml/minute



### SPECTRA BLADDER PUMP SIL 2.0

The Spectra Scientific Bladder Pump Sil 2.0 is a simplified bladder pump designed to save technicians time and energy in the field. The quick plug and sample design makes it the easiest to use bladder pump currently available in the market.

#### FEATURES

- PFAS free
- Rugged design
- Easy to replace silicone sleeve
- Bladders and tubing sold separately



## WATERRA SS MONSOON PUMP

The SS Monsoon pump is capable of pumping up to 120 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells.

### FEATURES

- Tubing sold separately
- Comes with low-flow controller and battery



## GEOTECH GEOCONTROL PRO

The Geocontrol Pro pump kit has a built-in high performance air compressor that allows sampling from depths up to 200 feet. Applications: Low flow sampling

### FEATURES

- Operates from a 12VDC portable rechargeable battery (battery & charger included)
- Push/pull tubing fitting for fast and easy tubing changes in the field
- Bladders sold separately



## WATERRA HYDROLIFT II

The Hydrolift II is a portable, electrically operated device that is used to automate the operation of the Inertial Pump. **Applications:** well development, sampling, purging.

### FEATURES

- Requires 1000 W Power Generator (available for rent)
- Tubing, foot valves, surge blocks sold separately



## HONDA GENERATOR

### FEATURES

- Quiet, portable, lightweight
- Weight: 46lbs
- Maximum AC Output (Watts): 2000
- Gas powered
- AC Voltage Available: 120
- 2 outlets
- Horsepower: 3.5





## HERON DIPPER-T

The dipper-T2 water level meter is designed for well drillers, consultants, and hydrogeologists all across the globe. The Heron dipper-T2 is renowned for its premium, polyethylene coated yellow steel tape accuracy in measuring depth to water. Available in your choice of either metric or engineering scale.

### FEATURES

- Premium Stainless Steel Polyethylene Coated Tape
- Removeable 5/8" (15.9mm) Water Level Probe (IP68) w/ holder
- Electronic Panel with audio / visual signals and volume control dial (Fully Encapsulated to IP65)
- Sensitivity dial to tune out cascading water
- 100m, 200m



## HERON SKINNY DIPPER

Water Level Indicating Meter. Includes shrouded probe, light, buzzer and battery test button.

### FEATURES

- 60m length
- Probe diameter: 1/4" OD



## HERON H.OIL INTERFACE METER

Water/Oil interface meter. Includes shrouded probe, light, buzzer and battery test button.

### FEATURES

- 60m



## SOLINST LEVELOGGER 5 WATER LEVEL DATALOGGERS

The Levelogger 5 records highly accurate groundwater and surface water level and temperature measurements. It combines a pressure sensor, temperature detector, 10-year lithium battery, and datalogger, sealed within a 22 mm x 160 mm (7/8" x 6.3") stainless steel housing with a corrosion-resistant coating baked-on using polymerization technology. Rental includes reader

### FEATURES

- Available in barologger, 0-5m, 0-10 depths



## HERON DIPPER-SEE EXAMINER DOWNHOLE CAMERA

The Heron dipper-See EXAMINER is a robust and cost effective vertical downhole inspection camera. Designed with portability in mind, this self-contained unit is ideal for viewing in wells, drains, vertical shafts, open bodies of water, boreholes and narrow tubes over 25mm (1") in diameter, up to 150m depth.

### FEATURES

- Audio/video capabilities
- 150m depth



## GEOTECH BLADDER PUMP, PORTABLE

Geotech's portable bladder pumps are designed with input from field technicians who actually do the sampling! Single turn release head and quick change bladders allow for quick, in-the-field bladder changes and easy decontamination. Custom hose barbs allow the pump to be secured to tubing without the need for tubing clamps.

### AVAILABLE SIZES

- .85" (2.2cm)
- 1.66" (4.2cm)

### FEATURES

- Constructed of 316 stainless steel
- Portable turnkey systems available
- Easy-to-open housings
- Quick-change bladder configuration



## WATERRA 1 UP PERISTALTIC SAMPLING PUMP

The Waterra 1 UP Peristaltic Sampling Pump can be powered by 110 and 220V AC, external 12VDC or its 12V internal battery. Suction lifts up to 8.5 m (27 feet). 4 choices of on board batteries: 12 or 20 Ahr batteries, in either (LIFE) LithiumIronPhosphate – great power curve, SLA (sealed lead acid) conventional but twice the weight.

### FEATURES

- Powered by 110 and 220 VAC, 12 VDC or onboard 12V battery
- Rugged construction with comfortable carrying handle
- Accommodates either waterra UP#15 or UP#24 peristaltic tubing
- Flow rates up to 1.5 litres per minute





## SPECTRA HYDRO CONTROLLER

The Spectra Scientific Hydro Pro Controller is a Professional Grade microcontroller-based Air Compressor that is used as a Bladder Pump and Pneumatic Pump controller for both Groundwater Sampling and Well Remediation. With the ability to function as deep as 300ft the Hydro Pro is the most rugged and versatile Controller available. Used alongside the Spectra Bladder pump for groundwater sampling or the Spectra Pneumatic Pump for remediation.

### FEATURES

- Easy to use and operate.
- Intuitive display with wealth of information.
- 120 PSI full duty cycle Air Compressor.
- Vented internal components to prevent humidity build up.







# **Limnology & Fisheries Equipment**



## Limnology & Fisheries Equipment

### Smith-Root LR-24 Electrofisher



The LR-24 Electrofisher is a rugged 24V 400W battery powered electrofisher. It is suitable for extensive field work in any weather conditions. The LR-24 uses premium electronic components and circuitry housed inside of a custom molded plastic case. Rental includes: anode, cathode, 2 batteries + charger, travel case



### SMITH-ROOT EDNA SAMPLER

The Smith-Root eDNA Sampler is the world's first purpose-built eDNA sampling system. Designed for use with Smith-Root eDNA filter packets, the computer-controlled water pump gives you the ability to program the sample volume, regulate filtration pressure, set specific flow rates and standardize your sampling process. It is the only system capable of mobile eDNA filtration. Filters sold separately.

#### FEATURES

- Maximum Measurable Volume: 999.9 L
- Volume Accuracy: > 90% at 0.1 L/minute or higher flow
- Number Of Channels: 72
- GPS Position Accuracy: 2.5 meter
- Target flow rate (L/min): 0.1-1.4 L/min



### WILDCO HAND CORER

Here is a low-cost, foolproof sampler especially intended for shallow coring in fresh, salt or brackish waters. modular in design and are compatible with all head assemblies, with the exception of the flag sampler. Simply switch the head assembly on your core tube to convert it for use in different applications. All corers require a nose piece, core catcher, liner tube, core tube and head assembly for proper use. Available for purchase as consumables: liner tubes, eggshell catchers.

#### FEATURES

- 5 - 15 foot long extension handles



## WILDCO HEAVY KB CORER

Best corer as the heaviest. Good for deep lakes (100'+) where bottom interface important. Available for purchase as consumables: liner tubes, eggshell catchers.

### FEATURES

- For fauna at water/bottom interfaces
- Can be free-dropped up to 10m (33')
- Unrestricted flow, little bottom disturbance
- 100ft of rope & messenger, carry case



## WILDCO HESS SAMPLER

Similar to Surbers but suitable for gravel and cobble bottoms. Cylindrical with enclosed sides and an open top, it has two strong reversible handles for forcibly pushing and rotating the cylinder into stream bottoms. The sampler penetrates 3 - 6" (75 - 150 mm).

Once in place, scrub the pebbles inside so the specimens are carried by the current into the net. Water flows in through the upstream window and out the downstream window into the collecting net and bucket.

### FEATURES

- Front Screen: 500 um or 240 um
- Net: 500um or 240 um



## WILDCO PETITE PONAR GRAB

Widely used in fresh and salt water for taking samples of hard bottoms such as sand, gravel, consolidated marl, or clay. When the scoops contact the bottom, they obtain good penetration with very little sample disturbance.

### FEATURES

- Includes 100ft of line
- Dimensions: 9 x 9 x 9 in.

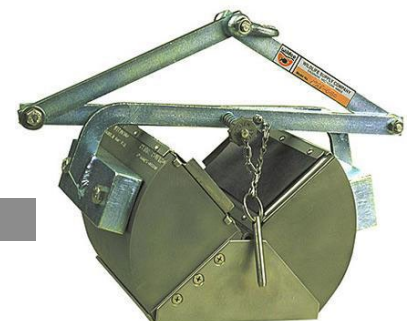


## WILDCO STANDARD PONAR GRAB

Widely used in fresh and salt water for taking samples of hard bottoms such as sand, gravel, consolidated marl, or clay. When the scoops contact the bottom, they obtain good penetration with very little sample disturbance.

### FEATURES

- Includes 100ft of line
- Dimensions: 6 x 6 x 6 in.



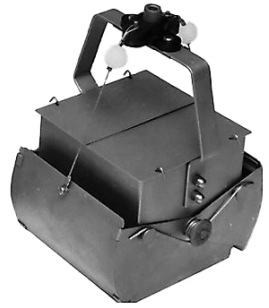


## WILDCO STANDARD EKMAN SEDIMENT SAMPLER

For obtaining grab samples from soft, finely divided littoral bottoms that are free from vegetation and intermixtures of sand, stones, and other coarse debris. It samples particularly well those bottoms composed of finely divided muck, mud, ooze, submerged marl, or fine peaty materials.

### FEATURES

- 100ft of rope & messenger
- Dimension: 6 x 6 x 6 in.
- Weight & volume: 3 kg (7 lb) weight; 3.5 L volume







SCAN  
ME



# Moisture Density Gauges



## Moisture Density Gauges

### TransTech Soil Density Gauge



Using Electrical Impedance Spectroscopy (EIS) the SDG's measurement permits separation of the effects of density and moisture content on the response of the soil to electromagnetic probing. The density or compaction level is measured by the response of the SDG's electrical sensing field to changes in electrical impedance of the material matrix. **Sensing Area:** 11 in (27.9 cm). **Measurement Depth:** 12" (30cm) un-compacted layer of soil during or after compaction.



### S.E. INTERNATIONAL RADIATION SURVEY METER

The MONITOR 4 is a compact, general purpose survey meter capable of detecting alpha, beta, gamma, and x-rays over 3 selectable ranges. A red count light flashes and a beep sounds with each event detected.



### INSTROTEK XPLOER 2 NUCLEAR MOISTURE/DENSITY GAUGE

Operation is straightforward and uncomplicated. Menu options are easy to read and navigate. A backlit LCD screen and special scroll functions allow operators to easily read the Xplorer's two-line display during day or nighttime work. Battery Saver and IntelliCharge extend battery life keeping the gauge on the job instead of on the charger.

#### FEATURES

- Density Range: 1120 to 2720 Kg/m<sup>3</sup> (70 to 170 lb/ft<sup>3</sup>)
- Moisture Range: 0 to 640 Kg/m<sup>3</sup> (0 to 40 lb/ft<sup>3</sup>)
- Density Source: Cesium 137
- Moisture Source: Americium 241: Beryllium



### TROXLER MOISTURE/DENSITY GAUGE

The Troxler gauge gives you the fast, accurate, and consistent results you need to fulfill the testing requirements on today's construction projects. Provides the basic features required for determining the density of asphalt, soil, aggregate or concrete and the moisture of soil or aggregate.

#### FEATURES

- Gamma Source: 0.30 GBq (8 mCi)  $\pm 10\%$  Cs-137
- Neutron Source: 1.48 GBq (40 mCi)  $\pm 10\%$  Am-241:Be
- Source Housing: Stainless steel, encapsulated
- Surface Dose Rate: (5 cm) 19 mrem/hr maximum, neutron and gamma



## TRANSTECH PQI380 PAVEMENT QUALITY INDICATOR

The PQI380 uses Impedance Spectroscopy to measure the electrical response of asphalt from which the density is calculated. The electrical field transmits through the material from the sensor plate of the PQI. The impedance is then measured and used in the calculation of the density for that specific aggregate. TransTech's PQI 380 features a full-color graphics driven user interface, 480x640 VGA touch screen display with LEP backlight for easy visibility.



### FEATURES

- Sensing Area: 11 in (27.9 cm)
- Measurement Depth: 1"-4" (25mm-10mm)

## INSTROTEK CPN NUCLEAR GAUGES

Smart-MC™ is a simple, drop-in upgrade which gives new life to your older MC-1DRP and MC-3 gauges. Smart-MC offers a variety of operator friendly features such as a new backlit display and keyboard, test storage capability and cable-free download. Your test can be easily stored, printed or saved to a USB thumb drive. The improved software is easy to navigate with a well thought out keypad layout and simple on screen instructions. Regional restrictions apply, *see local rental office for clarification.*



### FEATURES

- Plug and Play Installation
- User friendly Software
- Backlit 4x20 LCD display with 9mm characters for maximum visibility
- USB flash drive storage for cable-free data download
- High reliability, updated and improved electronic design
- Illuminated keypad for night work

## INSTROTEK XPLOER 3500 NUCLEAR GAUGE 12"

Operation is straightforward and uncomplicated. Menu options are easy to read and navigate. A backlit LCD screen and special scroll functions allow operators to easily read the Xplorer's two-line display during day or nighttime work. The simple keypad layout and program design will permit technicians to quickly move from other moisture density gauges to the Xplorer 3500. All components have been scrutinized for over two years showing better performance and reduced maintenance costs when compared to other gauges. Regional restrictions apply, *see local rental office for clarification.*



### FEATURES

- Thoroughly tested for ruggedness and accuracy
- Battery Saver and IntelliCharge extend battery life





**soil**

## Soil

### TEMPOS Thermal Properties Analyzer with Sensor



The ASTM 5334- and IEEE 442-compliant TEMPOS is engineered using ISO 2008 standards. It takes accurate readings of thermal conductivity, thermal resistivity, thermal diffusivity, and specific heat in many material types across multiple disciplines, from soil and concrete to food, plastics, lubricating oil, and even human tissue. Operational Temperature Range: -50 to 160°C.

#### KS-3 (6 cm [small] single needle)

- Conductivity: 0.02–2.00 W/(m • K)
- Resistivity: 50–5,000 °C • cm/W

#### TR-3 (10 cm [large] single needle)

- Conductivity: 0.1–4.0 W/(m • K)
- Resistivity: 25–1,000 °C • cm/W

#### SH-3 (3 cm dual-needle)

- Conductivity: 0.02–2.00 W/(m • K)
- Resistivity: 50–5,000 °C • cm/W

#### RK-3 (6 cm [thick] single needle)

- Conductivity: 0.10–6.00 W/(m • K)
- Resistivity: 17–1,000 °C • cm/W



### GUELPH PERMEAMETER KIT

An easy to use instrument for quickly and accurately measuring of in-situ hydraulic conductivity. Measurements can be made in the range of 15-75 cm below the soil surface.

Guelph Permeameter Kit, consists of: permeameter field tripod, well auger, well preparation and cleanup tools, and vacuum test hand pump, in a durable carrying case. The rental unit includes: hand auger and auger extensions for the extension kits.

#### INCLUDES

- 80cm extensions are also available to be rented separately.
- Maximum of 3 extensions can be used with the Permeameter (315cm)



### EIJKELKAMP EDELMAN HAND AUGER

Edelman clay augers have narrow blades that minimize friction in cohesive soils and cause little resistance during retrieval. Edelman augers are widely used for the study of soil composition, soil profiling, and soil mapping. They feature a screw-like point at the base of the auger that enters the soil as you push and turn the auger clockwise. The soil sample is guided into the auger by two vaulted vertical cutting blades. The vaulted design promotes soil digging and ensures a firm hold of the sample in the auger.

#### INCLUDES

- Total length with extensions: 3m



## EIJKELKAMP RIVERSIDE AUGER

Hand auger equipment is extremely suitable for soil research. Riverside auger for hard, stiff soils, mixed with fine gravel both above and below the ground water level.

### INCLUDES

- High tensile strength forged auger bodies
- Perfect auger body shapes for optimal drilling
- Total length with extensions: 3m



## SPIRAL AUGER, BOTTOM PART, BAY., Ø 4 CM

Hand auger equipment is extremely suitable for soil research.

As almost any type of soil sets its own demands where it concerns the model of the auger to be applied. In the course of the years many models have been developed. Years of experience and many contacts with soil researchers at home and abroad made it possible to achieve the optimum design for various types.

### INCLUDES

- 100cm Extension (Total Length: 2m)
- 2x Coupler's







# Sound & Vibration



## Sound & Vibration



### Sonitus EM2030 Sound Level Monitor – Class 1 Sound Level Monitor

The EM2030 is a fully automated, remote sound level monitor. The unit is designed for simple operation and reliability in tough environments. Fully automated operation, save time and costs, email/SMS alerts, live noise control, low power option, extend battery life and tackle any application. Capture audio samples, easily identify noise sources. Simple field operation, save time and costs. Remote performance alerts, live noise control. Optional microphone heater for monitoring during winter.



### AVA MONITORING M80 VIBRATION MONITOR

The AvaTrace M80 vibration measurement field instrument with sensors records, processes and temporarily stores measurement data from vibrations locally in the instrument. Measurement data is automatically transmitted over the mobile phone network and the Internet. Runs on 6 D Batteries – Battery can last up to 6 months.

#### FEATURES

- Sample Rate: 6 kHz (down-sampled to 3 kHz in collected waveforms)
- Frequency Range: 1 Hz to 500 Hz (filter profile dependent)
- Sensor Interface: Analog sensor interface, 4 TNC ports







# Water Measurement



## Water Measurement

### SonTek rQPOD Remote Surface Water Vehicle



The rQPOD is a lightweight, portable solution for conducting and recording water surveys. Compatible with M9 and RS5. Colour coded parts and cables for easy assembly. 1.5m/s top speed. Easy control with high and low speed settings. 2 removable, field serviceable thrusters with FCS fittings. Removable skid guards to protect thrusters. Removable batteries. Lightweight (12kg incl. Torrent Board, M9, PCM & rQPOD)

### SONTEK-IQ PLUS

The SonTek-IQ Plus is ideal for water depths up to 5m (16 ft). The SonTek-IQ Plus incorporates advanced postprocessing functions, providing deeper insight into your flow and volume data.

#### FEATURES

- Self contained all-in-one design
- Proprietary flow algorithms for irrigation canals, natural streams and pipes
- Uses SonTek's exclusive SmartPulseHD adaptive sampling
- Self-calibrating water level using vertical acoustic beam and pressure
- Standard package includes the SonTek-IQ, IQ software, easy mounting hardware, cable, adaptor and power supply



### SONTEK RIVERSURVEYOR M9

The RiverSurveyor S5/M9 is a river discharge measurement system without the traditional limitations. The patented and award-winning RiverSurveyor measures extreme flood or drought situations within a single instrument and is small, portable, and easy to use without changing user settings. Optional Under Ice Kit available upon request

#### FEATURES

- Profiling Range - Distance: 0.06 to 40m
- Profiling Range - Velocity:  $\pm 20$  m/s
- Velocity - Accuracy:  $\pm 0.25\%$  of measured velocity  $\pm 0.2$  cm/s
- Velocity - Resolution: 0.001 m/s



## SONTEK RS5 RIVERSURVEYOR

The RS5 is small yet powerful. When paired with the custom-designed Torrent Board Micro and SonTek-RTK, you will be ready to quickly collect the highest quality water velocity and flow measurement possible regardless of your environmental water monitoring takes you.

### FEATURES

- Profiling Range: 0.1-6m
- Velocity Range:  $\pm 5$  m/s
- Accuracy: 1%  $\pm 0.002$  m/s



## HR WALLINGFORD ARC-BOAT

The ARC-Boat is designed to make safe unmanned discharge measurements in rivers and streams using acoustic Doppler current profilers (ADCPs). The hull design minimizes air entrainment for optimum ADCP data quality.

### FEATURES

- Top Speed – up to 5m/s
- Compatible with M9



## SONTEK FLOWTRACKER2 HANDHELD ADV

The SonTek FlowTracker2 handheld Acoustic Doppler Velocimeter (ADV®) is a handheld, portable, and precise wading discharge measurement instrument. Rental includes a wading rod. Optional Under Ice Kit available upon request.

### FEATURES

- Velocity Range  $\pm 0.001$ -4.0 m/s (0.003-13 ft/s)
- Velocity Resolution 0.0001 m/s (0.0003 ft/s)
- Velocity Accuracy  $\pm 1\%$  of measured velocity,  $\pm 0.25$  cm/s
- Minimum Depth 0.02 m (0.79 in)



## AQUA DATA FLUVIA RC3 VELOCITY METER

The FLUVIA RC3 flow meter is a portable electromagnetic device that measures the velocity of water to determine its flow. Its hydrodynamic shape and small probe size permits measurements close to a fluid surface, channel bed or pipeline wall, and with no moving parts, it does not retain debris - guaranteeing accuracy and reliability.

### FEATURES

- Range: 0-3m/s
- Accuracy: 1% max reading + zero stability
- Resolution: 0.001m/s
- Operating Temp: -5 to 70 °C



AQUA DATA FLOSTICK RC4

The Aqua Data FloStick RC4 Water Velocity Meter is a stand-alone instrument comprising velocity probe, wading rod and display housing, all in a single integrated package.

It uses the Faraday principle of electromagnetic induction and advanced analogue and digital electronics to offer an accurate, robust and low cost method of measuring water velocity, and logging data for later analysis.

FEATURES

- Velocity Range: 0.000 to 2.000m/s
- Resolution: 0.001m/s



CEE-LINE SINGLE BEAM ECHO SOUNDER

CEE-LINE™ is a big echosounder in a tiny package, designed for survey applications where size is critical. Waterproof, powerful, and practically indestructible.

The CEE-LINE™ offers hydrographic survey grade echo sounder performance in a miniscule package hardly wider than the transducer cable. With an indestructible weatherproof coating the CEE-LINE™ is ideal for unconventional survey applications where minimizing size and weight is crucial.



SOMMER TQ TRACER SYSTEM / MOBILE DISCHARGE MEASUREMENT

For sediment rich and turbulent waters when standard flow meters can't be used.  
**Tracer System TQ-S:** Tracer dilution method with instantaneous feed. Discharges up to 10 m³/s.  
**Tracer System TQ-F:** Tracer dilution method with instantaneous feed. All discharge volumes.  
Rental includes laptop computer

	Conductivity	Fluorescence
Measurement:	0-5000 µS/cm	Rhodamine
Range:		WT: 0-50 µg/l (ppb)
Resolution:	0.1 µS/cm	0.05 µg/l (ppb)
Working temp.:	-20-60°C	0-50°C





## OTT MF PRO - WATER FLOW METER

The OTT MF Pro is a user-friendly, low maintenance electromagnetic current meter for cost-efficient in-stream discharge measurement.

### FEATURES

- Discharge automatically calculated
- Real-time velocity
- Maintenance-free
- Versatile applications
- User-friendly handheld
- Measuring range 0 m/s- 6 m/s
- Accuracy at 0 ... 3 m/s  $\pm 2\%$  of meas. value  $\pm 0.015$  m/s
- Accuracy at 0 ... 5 m/s  $\pm 4\%$  of meas. value  $\pm 0.015$  m/s



## SWOFFER 2100 C140 CURRENT METER

The Model 2100 Current Velocity Meter provides stream current measurements from 0.1 to 25 feet per second by reading directly in feet or meters per second. Velocity is shown on a display readout and units of measure are selected by a toggle switch located inside the battery compartment at the back of the indicator.

### FEATURES

- 2" diameter
- Propeller style
- Velocity range 0.03 - 7.5m/s
- Accuracy: +/- 1% with user calibration
- 1.40m Top Set Wading Rod
- 3 selectable average times (1.5, 6, 30 seconds)
- Low flow



## DXN PORTABLE HYBRID ULTRASONIC FLOW METERS

The Dynasonics DXN meter is a powerful tool for troubleshooting flow issues, whether you want to quickly verify the flow reading of another meter or to data log flow system values over an extended time period.

### FEATURES

- Comes standard - Transit time small (DTTSU) and medium (DTTR) transducers.
- Optional - Transit time large (DTTL) transducer and the Doppler (DT94) transducer.



	A	B	C	D	Minimum Pipe O.D.	Maximum Pipe O.D.
DTTSU	7 in. (178 mm)	1.6 in. (42 mm)	1.5 in. (39 mm)	-	0.5 in. (12 mm)	2.4 in. (60 mm)
DT94	1.7 in. (43 mm)	4.1 in. (105 mm)	1.9 in. (48 mm)	-	1 in. (25 mm)	60 in. (1524 mm)
DTTR	4.6 in. (117 mm)	2.3 in. (58 mm)	3.6 in. (91 mm)	-	2 in. (50 mm)	98 in. (2500 mm)
DTTL	2.5 in. (63 mm)	4.2 in. (107 mm)	2.5 in. (63 mm)	3.9 in. (99 mm)	16 in. (400 mm)	120 in. (3050 mm)

## ISCO SIGNATURE LASERFLOW

The LaserFlow non-contact sensor offers the most accurate and cost-effective way to monitor water flow in most open channel applications. It's suitable for small and large pipes, streams, rivers, sewers, stormwater, and wastewater. The Laserflow open channel flowmeter is available in 2 versions, General Purpose area and Hazardous locations.

### EX - HAZARDOUS LOCATIONS

- Signature Flowmeter (Safe Area)
- TIENet Laserflow EX Sensor, (Class 1 Div 1) with 10m cable
- Intrinsic safety barrier enclosure (Safe Area) with 10ft cable
- Laserflow Sensor mounting bracket required

### GP - NON-HAZARDOUS LOCATIONS

- Signature Flowmeter
- TIENet Laserflow Sensor with 10m cable
- Laserflow Sensor mounting bracket required



## ISCO DURATRACKER® FLOW LOGGER

The DuraTracker® flowmeter logs flow data with more features especially when multiple sensor connections and communication with a cell phone are required.

The DuraTracker® is flow measurement made easy, with a durable build, efficient operation, room to attach multiple devices and intelligent options for communicating data to the user. It's a versatile flowmeter like no other and ideal for many flow applications.

### PORTABLE OPEN CHANNEL FLOWMETER ISCO DURATRACKER® FEATURES

- Bluetooth connection
- Alkaline Lantern battery operated (not included)
- TIENet Sensor must be selected (A/V or Laserflow)
- Flowlink Software required to set up logger and analyze data

### ISCO DURATRACKER FLOW LOGGER WITH MODEM

Includes all of the above plus;

- Built in Modem and external Antenna
- Cell phone service (SIM card) included
- Server Access via ISCO Cipher





## ISCO TIENET SENSORS

The DuraTracker is built on a TIENet platform that allows for plug-and-play sensors. With two available TIENet connectors, it can be used in applications that require measurement with single, redundant, or multiple flow measurements. Choice of sensors is as follows:

### TIENET 350 AREA/VELOCITY SENSOR

- Velocity measuring range -1.5 to 6.1 m/s (-5 to 20 ft/s)
- Level measuring range 3.05 m (10ft)
- Comes with 10 m (33 ft) cable
- Sensor mounting hardware not included

### TIENET 360 LASERFLOW SENSOR

- Velocity measuring range -4.6 to 4.6 m/s (-15 to 15 ft/s)
- Level measuring range 3.05 m (10ft)
- Comes with 10 m (33 ft) cable
- Laserflow Sensor mounting hardware not included

Duratracker flowmeter required to make a complete system.



## AYYEKA LEVEL/FLOW WEB BASED DATA LOGGER

The Ayyeka Wavelet Ex Level/Flow Web Based Data Logger Kits include an ultrasonic level sensor with mounting bracket, battery and offer Intrinsic Safety (Zone 0). The Wavelet offers data-logging, telemetry platform, and Web based data management system all fused into a single streamlined solution.

### FEATURES

- Provides instant remote access to anywhere
- Dual SIM card system, Universal
- Fully autonomous, self powered
- Level measuring range 0.3 to 7.5 m
- Sensor with 10 m cable

Rentals are shipped with SIM card, antenna, and Web Server access to push data to the Web. Easy to deploy and access real time data remotely.

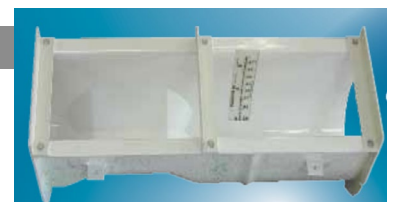


## PALMER-BOWLUS FLUME

The Palmer-Bowlus flume is well know in the sanitary field. It's primary application is in pipelines, in round bottom channels or in manholes where it is often preferred because of cost and ease of installation that can minimize construction expense. Ideal for temporary applications.

### FEATURES

- Palmer-Bowlus Flume 6in with approach and side gage
- Flow range 0.7 to 50 m<sup>3</sup>/h (3 to 230 USGPM)
- Dimensions: 64cm x 25.4cm (25in x 10in)







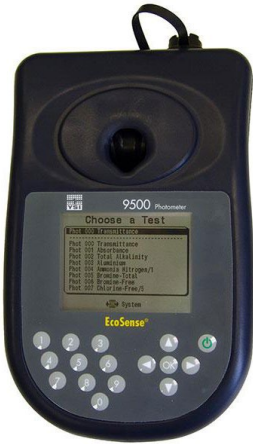
# Water Quality



# Water Quality

## YSI 9500 Photometer

The YSI 9500 is an economical photometer in a small package for any application. This portable photometer allows you to easily take readings directly in the field for 100+ parameters. Reagents sold separately.



## YSI EXO2 WATER QUALITY SONDE

The EXO2 collects data with SIX user-replaceable sensors, a central wiper to keep sensors clean of biofouling, 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 & temp, DO (optical), fDOM, pH / ORP, total algae, turbidity, rhodamine.

### FEATURES

- USB connectivity
- On board memory (>1,000,000 logged readings)
- 90 day battery life @ 15min intervals
- Built-in depth sensor



## YSI EXO3 WATER QUALITY SONDE

The EXO3 collects data with FOUR user-replaceable sensors, a central wiper to keep sensors clean of biofouling, 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 & temp, DO (optical), fDOM, pH / ORP, total algae, turbidity, rhodamine.

### FEATURES

- USB connectivity
- On board memory (>1,000,000 logged readings)
- 60 day battery life @ 15min intervals
- Built-in depth sensor
- Telemetry option available



## YSI X2 TELEMETRY LOGGER (CELLULAR/IRIDIUM OPTIONS AVAILABLE)

An all new data logger offering the latest in real-time monitoring technology with wireless communication, a large plug-and-play sensor library, and ultra-low power consumption.

The X2 rental kit is only compatible with the YSI EXO3 sonde.

Smartphone Interface - A smartphone, tablet, or laptop connects by Wi-Fi to access sensor data and view or change settings. No application-specific hardware or software is required. Works within an existing Wi-Fi network or as a direct link from the X2 to the device.



## 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 & temp, DO (optical), fDOM, pH / ORP, total algae, turbidity, rhodamine.

### FEATURES

- USB connectivity
- On board memory (>1,000,000 logged readings)
- 60 day battery life @ 15min intervals
- Built-in depth sensor



## HANNA FREE & TOTAL CHLORINE PORTABLE PHOTOMETER

The HI96711 portable photometer is for the measurement of free and total chlorine. Reagents sold separately

### FEATURES

- Range: 0.00 to 5.00 mg/L (ppm)
- Resolution: 0.01 mg/L (ppm) from 0.00 to 3.50 mg/L; 0.10 mg/L above 3.50 mg/L
- Accuracy: 25°C (77°F)  $\pm 0.03$  mg/L  $\pm 3\%$  of reading



## LAMOTTE TURBIDITY METER, 2020WE & 2020I

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.

### FEATURES

- Unit of measure: NTU, AU, ASBC, EBC, FNU (2020i)
- Range: 0-4000 NTU/FNU, 0-10, 500 ASBC, 0-150 EBC
- Resolution (2020i): 0.01 NTU/FNU 10.00-10.99, 0.1 NTU/FNU 11.00-109.9, 1 NTU/FNU 110-4000
- Accuracy (2020i): 0-2.5 NTU the accuracy is  $\pm 0.05$  NTU, 2.5-100 NTU the accuracy is  $\pm 2\%$ , 100 NTU the accuracy is  $\pm 3\%$





## TURNER DESIGNS AQUAFLUOR

AquaFluor® is a lightweight, inexpensive, handheld fluorometer/turbidimeter ideal for field use. 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. **Applications:** Ideal for quick grab samples from surface water or for samples that have been pumped from a well.

### FEATURES

- Rhodamine WT - 0.4 ppb, linear range: 0-400 ppb
- Fluorescein - 0.4 ppb, linear range: 0-400 ppb
- Grab Sample
- For dye trace studies and flow measurements



## 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.

### FEATURES

- GPS position, date and time
- Waterproof interface works in and out of the water
- Bluetooth wireless communication
- No user calibration needed
- Includes 100' of rope



## YSI EXO1S MULTI-PARAMETER 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 & temp, DO (optical), fDOM, pH / ORP, total algae, turbidity, rhodamine.

### FEATURES

- USB connectivity
- On board memory (>1,000,000 logged readings)
- Built-in depth sensor



## YSI PRO1030

Rugged and reliable, the YSI Pro1030 provides everything you need in a handheld instrument. **Sensor options:** temperature, conductivity, TDS, pH

### FEATURES

- Cable length: 1m, 4m



## YSI PROODO

The YSI ProODO handheld DO meter provides extreme durability for measuring dissolved oxygen with optical, luminescent based technology for any field application. **Sensor options:** temperature, DO (%).

### FEATURES

- Cable length: 4m, 10m, 30m



## YSI PROPLUS QUATRO

Combine 4 sensors on a single cable for comprehensive multiparameter sampling to measure temperature/conductivity, DO, pH and ORP. Pairing the ProQuatro with the 4-port cable creates an extremely powerful handheld multiparameter water quality instrument. **Sensor options:** pH, conductivity, salinity, TDS, ORP, DO (% sat & mg/l), temperature. \*Flow through cells available

### FEATURES

- Cable lengths: 4m, 10m
- Sensor options and Flow through cell



## YSI PRODSS

A handheld multiparameter meter that provides extreme flexibility for the measurement of a variety of parameters. Available with GPS coordinates and optional depth. Sensor options: turbidity, conductivity, salinity, pH, ORP, temperature, optical DO, TDS. Flow through cell available.

### PARAMETERS

- Cable lengths: 4m, 10m\*, 30m\*, 60m\*
- Sensor options and Flow through cell

*\*have a depth sensor*



## OCEAN SONICS ICLISTEN SMART HYDROPHONE

The icListen HF-X2 Smart Hydrophone is the industry's most sensitive broadband digital hydrophone. Included with rental, Lucy Software.

### FEATURES

- Visualize and log Sound Exposure Levels (SEL), CSEL,
- Peak and RMS in Real Time
- Display waveform and spectrum data
- Use Lucy's Epoch feature to detect events
- Detect impulsive events, such as pile driving, by using Lucy's impulse detector



## FEDERAL SNOW SAMPLER

The Federal Sampler is the most popular snow sampler used to determine snow density and Snow Water Equivalent (SWE). Each 30" (76.2 cm) section is consecutively laser engraved with graduations every half-inch (1 cm), and the sensitive spring scale is dual graduated in centimetres SWE. Standard accessories include a drive wrench, thread rotector, spanners, cleaning pole and nylon carrying case.



## HOBO U26 ODO LOGGER

The HOBO U26 Dissolved Oxygen Logger is a highly precise, low-cost data logger for measuring concentrations of oxygen in lakes, streams, rivers, estuaries, and coastal waters. Used by aquatic biologists, hydrologists, and other research professionals, the HOBO U26 combines the high accuracy, robust performance of industry-leading RDO® Basic (Rugged Dissolved Oxygen) sensor technology with an easy-to-maintain design. Rental includes optic base station reader

### FEATURES

- Memory: 21,700 sets of DO & Temp measurements (64 KB total memory)
- Measurement Range: 0 - 30 mg/L
- Accuracy:  $\pm 0.2$  mg/L up to 8 mg/L,  $\pm 0.5$  mg/L from 8 to 20 mg/L



## WILDCO KEMMERER BOTTLES - 2.2L OR 4.2L

These Kemmerer water samplers have no metal parts to contact your sample. Delrin fasteners and an O ring replace the stainless steel garter spring in the All-Angle™ trip head. The bottle body can be either transparent acrylic, which allows you to view your sample before removal, or opaque PVC for greater durability. Suitable for trace metal and organic analysis. 100ft of rope & messenger included.

### FEATURES

- All plastic construction
- 2.2L clear acrylic main tube
- 4.2L opaque PVC main tube
- PVC centre shaft
- Silicone seals



## WILDCO 2.2L AND 4.2L BETA BOTTLE WATER COLUMN SAMPLER

For obtaining water samples at depth from a lake or other source. Bottle is ideal for Trace Metal or Organic Sampling (no metal parts touch sample & silicone gaskets). Vertical and Horizontal models available.

### FEATURES

- 100ft of line & messenger included





## WILDCO 2.2L ALPHA BOTTLE, HORIZONTAL ACRYLIC

Intended for shallow or deep waters, these bottles are called “horizontal” because they descend parallel to the bottom. They are pulled sideways just before closing by the operator. This ensures a representative water sample for that specific depth. They are ideal for sampling at the thermocline, at other stratification levels, or just above the bottom sediments.

### INCLUDES

- Not suitable for trace metal sampling
- Polyurethane resin with attached safety line
- 316 SS trip head for durability
- Kits include bottle, plastic carry case, 100 ft of rope & messenger



## HEMISPHERE S321 SMART ANTENNA

The S321 provides a robust performance and high precision in a compact and rugged package.

### FEATURES

- Atlas™ L-band global corrections
- Athena™ RTK engine for instantaneous high accuracy
- Wi-Fi, UHF, Cellular, and Bluetooth communication ports
- Powerful web UI control accessed via Wi-Fi
- 4GB Internal memory for data logging, download, and upload
- Rugged enclosure for use in the most demanding environments



## ISCO 6712 FULL-SIZE PORTABLE SAMPLER

Wide range of bottle configurations, plug-in flow and parameter monitoring - and ISCO reliability. The 6712 Portable Sampler features a vacuum-formed ABS plastic shell to withstand exposure and abuse. Its tapered design and trim 20-inch (50.8 cm) diameter result in easy manhole installation and removal. Large, comfortable handles make transporting safe and convenient - even when wearing gloves. The NEMA 4X, 6 (IP67) enclosure is submersible, watertight, and dust-tight. Plug-in 700 Series Modules and the SDI-12 interface make it easy to add flow and parameter monitoring to your 6712-based system.



## ISCO 700 LEVEL/FLOW MODULES

The Series 700 Modules are designed to simply plug-in to an ISCO 6712 Sampler to add the capability you need for measuring level and flow. These environmentally sealed modules can be interchanged in the field, and can be added to an ISCO 6712 sampler at any time. Two Module versions available:

### ISCO 750 AREA/VELOCITY MODULE

- Velocity measuring range 0.1 to 7.5 m/s
- Level measuring range 3.04 m (10ft)
- Comes with sensor and 7.5m (25ft) cable
- Sensor mounting hardware not included



### ISCO 730 BUBBLER MODULE WITH 7.5M (25FT) TUBING

- Level measuring range 3.04 m (10ft), high accuracy
- Comes with 7.5m (25ft) of vinyl tubing
- Tubing mounting hardware not included



These 2 units require to be connected to an ISCO 6712 Water Sampler to make a complete system.

## ISCO GLS COMPACT COMPOSITE SAMPLER

The GLS Sampler is designed for general purpose or priority pollutant sampling in municipal and industrial applications where a full-size sampler is too large. It collects composite samples, based on time or flow intervals (cable required), in 10L polyethylene bottles.

Rentals are shipped complete with bottle, suction line, vinyl 7.5m with strainer, power pack 110VAC or 12VDC external power cable with clips, Isco Batteries available upon request.

### FEATURES

- Single 10L bottle configuration
- Simple programming
- Maximum lift 7.9 m
- Dimensions 42 cm Diameter x 67 cm H
- Dry weight 11 kg



## BLZZRD PORTABLE REFRIGERATED WASTEWATER SAMPLER

BLZZRD™ is a portable refrigerated sampler with active cooling from either AC or battery power. Its controller offers all advanced controls, interfaces, data logging, and remote communication features. Based on Teledyne ISCO's industry-leading 6712 controller, you get all the advanced control, data logging, and communication features of the 6712, with cooling from either AC or battery power.

### FEATURES

- 5- and 2.5 gallon composites
- 4 x 1-gallon, 4 x 1.8 L, and 14 x 950 ml sequentials





## VOLUCALC PUMP STATION MONITOR

Volucalc Hybrid™ CS can be used to make quick checks of pumping stations and precisely determine pump capacities in just a few pumping cycles. It is also a generic open channel flow meter. It can be used as a recorder and generator of reports for existing flowmeters. Rentals come complete with Volucalc Hybrid for up to 4 Constant Speed Pumps, 120VAC power supply, cellular Modem with Antenna, access to MaidMaps SCADA Web application, current sensors

Technical assistance for installation and data analysis available from Avensys.

### FEATURES

- Small size can be installed in existing panel
- Reports easily exported in Excel for deeper analysis
- Uses existing level sensors
- Uses a simple clip-on current sensor per pump
- High accuracy volumetric flow calculated every 30 seconds or faster
- Overflow volume measurement





# Miscellaneous



## Miscellaneous



### Rugby 810 Horizontal Laser Level

The Rugby 810 is an amazing one button horizontal laser level designed to eliminate user error.

Featuring a working range of 800m, unique unbreakable Li-Ion Battery, optional solar panel and incar charging and its industry leading IP68 water & dust protection make this the toughest laser level available on the market.



## GRABNER INSTRUMENTS MINIVAP VP VISION

A highly versatile portable vapor pressure tester that features best-in-class precision and a pressure range of 0-2000 kPa. The Vision comes fully configured to run all major vapor pressure methods including but not limited to ASTM D5191, ASTM D6378, ASTM D6377 and ASTM 6897. Every analyzer incorporates a shaker to provide rapid equilibrium for crude oil and V/L ratio tests.

### FEATURES

- 10" Industry proven touchscreen
- Built in Shaker motor
- Modern app-like user interface
- Wide temperature range of 0-120C



## SCHONSTEDT MAGNETIC PIN FINDER

Easy-To-Use - The GA-52Cx Locator detects the magnetic field of iron and steel objects and energized power lines. Both provide audio detection signals that peak in frequency when the locator's tip is held directly over the target.

Only two Controls - Designed for one-hand operations, the On/Off-Sensitivity and Volume controls are located on the underside of the cover on both locators. This provides easy access, protects the knobs and contributes to their overall ruggedness and dependability.



## DELL LATITUDE E6420 XFR FULLY RUGGED LAPTOP

The Latitude™ E6420 XFR notebook offers strong performance and reliable data protection in a design that's built to withstand the most challenging environments.

### FEATURES

- Real-world rugged
- Operating System: Windows® 7 Professional.
- Field-ready: Enjoy a clear view of your work even in direct sunlight with the 14" WLED display featuring DirectVue™ technology.





# RENTALS CATALOGUE



**Air & Gas**



**Groundwater**



**Limnology  
& Fisheries  
Equipment**



**Moisture  
Density  
Gauges**



**NDT Equipment**



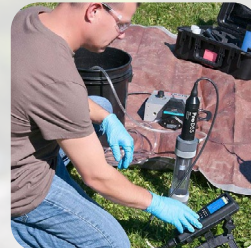
**Soil**



**Sound and  
Vibration**



**Water  
Measurement**



**Water Quality**



**Miscellaneous**

**Daily, weekly and monthly rental rates available.  
Contact us for a quote!**

**British Columbia & Yukon**  
 3735 Myrtle Street  
 Burnaby, BC  
 V5C 4E7  
 T: (604) 872-7894  
 F: (604) 872-0281  
[vancouverrentals@hoskin.ca](mailto:vancouverrentals@hoskin.ca)

**Prairie Provinces, Nunavut  
& NWT**  
 11540 184 St NW  
 Edmonton, AB  
 T5S 2W7  
 T: (780) 434-2645  
[edmontonrentals@hoskin.ca](mailto:edmontonrentals@hoskin.ca)

**Ontario & Atlantic Canada**  
 #5-3280 South Service Rd, W  
 Oakville, ON  
 L6L 0B1  
 T: (905) 333-5510  
 F: (905) 333-4976  
[oakvillarentals@hoskin.ca](mailto:oakvillarentals@hoskin.ca)

**Québec**  
 300 Rue Stinson  
 Montréal, QC H4N 2E7  
 T: (514) 735-5267  
 F: (514) 735-3454  
[locationmontreal@hoskin.ca](mailto:locationmontreal@hoskin.ca)



**HOSKIN**  
 GROUP



**HOSKIN.CA**  
 (800) 665-5871  
[SALES@HOSKIN.CA](mailto:SALES@HOSKIN.CA)



**AVENSYS.COM**  
 (888) 965-4700  
[INFO@AVENSYS.COM](mailto:INFO@AVENSYS.COM)