



WATER FLOW & LEVEL MEASUREMENT SOLUTIONS

HOSKIN

SCIENTIFIC



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Supplying Testing & Monitoring Instruments Since 1946

For over seventy-five 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.

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Digital Water Velocity Meter FP111

The Global Water Flow Probe is a highly accurate water velocity instrument for measuring flows in open channels and partially filled pipes. The water velocity probe consists of a protected water turbo prop positive displacement sensor coupled with an expandable probe handle ending in a digital readout display.

- Range: 0.3-19.9 FPS (0.1-6.1 MPS)
- Accuracy: 0.1 FPS
- Weight: Instrument: 2 lbs. (0.9 kg) (FP111), 3 lbs. (1.4kg) (FP211)
Shipping: 10 lbs. (4.5 kg) (FP111), 13 lbs. (5.9kg) ((FP211)
Expandable Length: 3.7 to 6 ft (1.1 to 1.8 m) (FP111);
5.5 to 15 ft (1.7 to 4.6 m) (FP211)



Swoffer 2100 Current Velocity Meters

The Model 2100 is a hand held current velocity meter designed specifically for the measurement of open channel velocities. Efficient propeller-driven Photo-Fiber-Optic sensor coupled with precision quartz crystal controlled electronics provide accurate repeatable data in all flow conditions.

- Velocity: 0.03 to 7.5 m/s
- Water Depth: 0.05 m up to height of rod
- Accuracy = >5% (unless rating obtained from the National Calibration Service).



RedBack Current Meter

The Red Back current meter is a new generation cup-type current meter. It allows the measurement of water flow in streams, open canals, pressure pipes, lakes and seas to a fine degree of accuracy and repeatability, this is due to its advanced contact switching system and interchangeable bucket system that provides trouble free operation.

- Velocity: 0.06 to 7.6 m/s
- Water Depth: >0.15 m
- Accuracy = $\pm 2.6\%$ in velocities from 0.229 m/s to 2.438 m/s



FlowTracker2: Wading Discharge Measurement Instrument

The new FlowTracker2 (FT2) handheld Acoustic Doppler Velocimeter (ADV[®]) has all the technology you have grown to know and trust with the original FlowTracker, but now comes with functional, modernized features (Bluetooth, GPS and large color screen, to name only a few) based on the evaluation and feedback from hydrologists, researchers and scientists who have made the FlowTracker their instrument of choice.

- Velocity: 0.001 to 4 m/s (Point velocity); 0.001 to 2.4 m/s (Pulse coherent)
- Water Depth: 0.02 m (Point velocity) up to height of rod;
0.05 m (Pulse Coherent) up to height of rod;
- Accuracy = $\pm 1\%$ (of measured velocity)



OTT MF pro - Water Flow Meter

The OTT MF pro saves time in the field by automatically calculating discharge and its electromagnetic sensor head is maintenance-free, ideal for use in low-flow environments, and unaffected by large amounts of organic matter.

- Real-time velocity: velocity is graphed in real-time on the meter’s color display, allowing trends to be visualized quickly
- Measurement Range: 0 ... 6 m/s
- Accuracy: ± 2% of measured value ± 0.015 m/s (0 ... 3 m/s) and ± 4% of measured value ± 0.015 m/s (3 ... 5 m/s)

Current Meter Counter PVD200



HyQuest Solutions’ Point Velocity Display (PVD200) is a small electronic device that can be used to measure flow velocity from most any mechanically rotating current meter. It counts the revolutions of the fans, calculates the flow velocity of the water and shows it on its LCD display.

- Direct Velocity Reading
- Dimensions: 140mm x 1080mm x 50mm (L x W x D)
- Weight: 400 grams (with batteries)

Current Meter Counter CMCbt



The CMCbt is a Bluetooth Current Meter Counter that provides an interface between any rotating mechanical Current Meter and a user interface such as the HydroTab Application running on a Samsung Galaxy Tab Active.

The CMCbt is also used to totalise the number of tips when used in conjunction with the Field Calibration Device and the FCD_APP calibration software on a samsung galaxy or a smart phone.

The CMCbt is similar to the CMCsp, PVD100 and PVD200 except it doesn’t have an LCD display – so all settings and operation must occur through the Bluetooth interface.



HydroTab Stream Gauging Computer

The HydroTab consists of software developed and supported by HyQuest Solutions combined with the respected “Samsung Galaxy Tab Active” hardware (Model SM-T360), especially designed for harsh environments and use by tradepersons.

The Tablet communicates via Bluetooth to the HyQuest Solutions’ CMCsp, PVD100, PVD200, MAG/CMC and CMCbt Current Meter Counters.

- Direct measure or stream gauging
- Bluetooth communication
- Easily paired with the CMCbt
- Can be used with existing HyQuest Bluetooth Counters



Top Setting Wading Rods MKII

The model TSR MKII Top Setting Wading Rods were developed to simplify the task of carrying out gauging in small streams. The TSR MKII shall only be used in shallow streams, where it is safe for the hydrographer to carry out gauging while wading.

- Available in Metric and Imperial Models
- Standard lengths 4 feet (1200mm),
- 6 feet (1800mm) and 8 feet (2400mm) are available on request



Top Set Wading Rod Model TSR

The model TSR Top Setting Wading Rods were developed to simplify the task of carrying out gauging in small streams.

The TSR shall only be used in shallow streams, where it is safe for the hydrographer to carry out gauging while wading.

- Available in Metric and Imperial Models
- Standard lengths 4 feet (1200mm),
- 6 feet (1800mm) and 8 feet (2400mm) are available on request

FLUMES



H Flumes and Options

Originally developed to measure agricultural water runoff, H flumes have a “V” shaped design that allows for measurement of a wide flow range. Additionally, H flumes are used to measure irrigation water, snow melt, holding pond overflow, industrial process discharge, as well as sanitary and storm sewer discharge.

Model HS flumes are designed for the measurement of very small flows with a high degree of accuracy. Model HL flumes are designed to handle very large flows.

Palmer Bowlus Flumes and Options



The Palmer Bowlus metering flume has been widely used for measuring water and wastewater in open channels or pipelines that are not under any pressure. This flume is normally installed in a “U” shaped channel fed by a pipeline such as storm drains and sewers. This convenient flume requires little redesign or special modification of circular conduits for installation.

Rather than try to make the flow application fit a particular type of flume, we carefully analyze the parameters so we can select an appropriate flume for the application. Options and modifications are available to ensure that the customer’s requirements are fully met, and that additional instruments are easily interfaced with the flumes.

Fibreglass Parshall Flumes and Options



The Parshall Flume has been the most widely used type of flume for fixed flow monitoring installations. A special shaped open channel flow section can be installed in a ditch or canal to measure the flow rate.

Parshall Flumes are sized by throat width, and conform to standardized dimensions published in the U.S. Department of the Interior, Bureau of Reclamation.

Trapezoidal flumes



All trapezoidal flumes exhibit similar flow characteristics, and have application advantages over other flumes and weirs. VPC offers a full line of standard flumes, along with countless custom structures used for open channel flow measurement. Sizes are available to measure everything from an intermittent trickle to a consistent canal.

Easy installation in existing open channels with little modification of the channel. Self-cleaning with good low flow resolution and accuracy.

FLOW MEASURING INSTRUMENTATION

Mace Flow Meter

The AgriFlo XCi can be used to monitor vital farm equipment and on-farm sensors. Use the versatility of AgriFlo XCi to monitor inputs as diverse as: irrigation flows; farm wastewater flows; water quality; dam levels; soil moisture; pump and engine management systems. AgriFlo XCi is easy to install, easy to use and virtually maintenance free. Utilizing state of the art MACE Doppler ultrasonic velocity sensors, AgriFlo has no moving parts and provides minimal obstruction to the flow. MACE Doppler ultrasonic velocity sensors excel in trash laden water and animal waste which means that the meter stays in service longer without time-consuming repairs.



SonTek-IQ Series



Ideal for monitoring flows in canals, culverts, pipes, and natural streams, the SonTek-IQ starts with a custom flow algorithm derived from hundreds of field measurements. Four velocity beams profile water velocity in 3-D - both vertically and horizontally - ensuring complete coverage of the velocity field. The built-in pressure sensor and vertical acoustic beam work in tandem to measure water level.

- Velocity Range ± 5 m/s (16 ft/s)
- Resolution 0.0001 m/s (0.0003 ft/s)
- Accuracy $\pm 1\%$ of measured velocity, ± 0.5 cm/s (0.2 in/s)

SonTek-SL1500



Inspired by the need for a SIMPLE way to measure water velocity and level in open channels, the SonTek-SL (affectionately known as the Side-Looker or "SL" or SL-1500) has earned worldwide acceptance as a long-term monitoring solution. Now, with two new (3G) models turbo-charged by our proprietary SmartPulseHD®, the SonTek-SL features accessories, mounting options, software, and a variety of integration formats to ensure it fits your application.

	SL3000 (3G)	SL1500 (3G)	SL500
Sampling range:	0.1 to 5m 0.3-17 ft	0.2 to 20m 0.7-66 ft	1.5 to 120m 5-400 ft

SonTek RiverSurveyor S5 and M9



The RiverSurveyor S5/M9 is a river discharge measurement system without the traditional limitations. Small, portable and easy to use, the patented and award-winning RiverSurveyor measures in extreme flood or drought situations within a single instrument, and without changing user settings. The results speak for themselves - the RiverSurveyor S5/M9 has revolutionized the way discharge is measured in rivers and canals.

	S5	M9
• Range:	0.20m to 15m	0.20m to 80m
• Accuracy:	1%	1%
• Resolution:	0.001m	0.001m

Sommer RQ-30 system



The RQ-30 non-contact system measures the discharge by RADAR technology. The unique feature of the RQ-30 system is the continuous capturing of flow velocity which enables an exact discharge measurement and evaluation of specific discharge situations.

RQ-30 system - components:

- Measuring range: 0.10 ... 15 m/s (depening on flow conditions)
- Accuracy: +/- 0.01 m/s; +/- 1 % FS
- Resolution: 1 mm/s



Sommer Velocity Radar RG-30 / RG-30A

The radar sensor RG-30 is used by hydrography and water management. It is applied for example in open rivers, streams or channels. It is especially suitable for measurement tasks where the usage of conventional respectively contact intense measurement systems is problematic.

- Dimensions 241 mm x 246 mm x 154 mm ; total weight 2.7 kg
- Measurement range 0.10 ... 15 m/s (depending on flow conditions)
- Accuracy +/- 0.01 m/s; +/- 1 % FS
- Resolution 1 mm/s



Sommer Radar Profiler RP-30

The RP-30 is used in rivers, streams and open channels and calculates the exact discharge of the body of water through several sectional velocity measurements. As is the case with the RQ-30, this method of measurement is also based on innovative radar technology including all the advantages of a non-contact measuring device.

- Measurement range: 0.10 ... 15 m/s (depending on flow conditions)
- Accuracy: +/- 0.01 m/s; +/- 1 % FS
- Resolution: 1 mm/s



Sommer Tracer System TQ-F (Fluorescence Tracer)

The discharge measurement is performed by using the proven tracer-dilution method and is especially suitable for high volumes of water. It can be deployed in turbulent rivers, creeks or waters for which data regarding the cross-section profile are not available. As a tracer a fluorescent material is used.

- Measuring principle tracer dilution method with instantaneous feed
- Measurement range: Fluorescein/Rhodamine: 0 ... 50 µg/l (ppb)
- Resolution: 0.05 µg/l (ppb)



Sommer Tracer System TQ-S (Salt Tracer)

The TQ-tracer system is especially suitable for fast-flowing, turbulent waters with complex cross sections, for example, mountain streams, small brooks, tributaries or even fish ladders. The measuring device is used particularly in hydrometry as well as by engineering offices, civil engineers or power plant operators, for instance for control measurements or for evaluating projects.

- Measuring principle tracer dilution method with instantaneous feed
- Measurement range 0 ... 5000 µS/cm
- Resolution 0.1 µS/cm

HyQuest Solutions Shaft Encoders AD375MA / AD375MAL



The AD375MA and AD375MAL absolute shaft encoders are low powered, microprocessor controlled devices, suitable for reliable and accurate sensing of water level. The internal CMOS circuitry enables the encoder to output measured values in absolute format. The encoder measures the angular position as the shaft rotates with changes in water level, totalises the signal and outputs in either 4-20mA (AD375MA only), SDI-12 or RS232.

- High accuracy: $\pm 0.01\%$ FS
- Dimensions: 245mm (L) x 125mm (H) x 150mm (D)
- Resolution: 1mm (maximum error ± 1 mm)

Sutron Shaft Encoder SDI-12

Measures stage (level) of rivers, streams, reservoirs, & other bodies of water. Groundwater monitoring, gate position indicator, compatible with SDI-12 Data Loggers.

- Revolves one rotation of the 5/16 in. input shaft into 400 increments
- 32 bit resolution counter.
- Range limited by SDI-12 to 7 digits. With 2 decimal place resolution, +99999.99. With 3 decimal place resolution, +9999.999.

Sutron Stage Discharge Recorder (SDR)

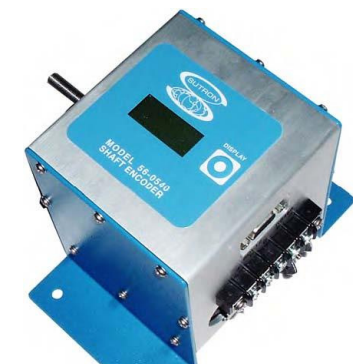
Sutron fused the ultra-reliable SDI-12 optical encoder with our state-of-the-art SatLink2 Logger technology to create an encoder that never forgets. SDR is a Logging Shaft Encoder used in surface water & groundwater applications. Front panel programmable, it holds over one year of data, & operates for over one year on alkaline batteries.

- Dual Sensor: Setup SDR to measure a second stage using an analog* or SDI-12 sensor
- Runs up to 1 year on an industrial alkaline battery
- Data delivered in easy-to-read & -open CSV files

HOBO® MX2001 Bluetooth (BLE) Water Level & Temperature Logger

The HOB0® MX2001 is the industry's first water level data logger designed for convenient wireless setup and download from mobile devices via Bluetooth Low Energy. The logger dramatically simplifies and lowers the cost of field data collection by providing wireless access to high-accuracy water level and temperature measurements right from a mobile phone or tablet.

- Range: 0-4m; 0-9m; 0-30.6 m; 0-76.5 m
- Resolution: 0.14 cm; 0.21cm; 0.41cm; 0.87cm;
- Accuracy: ± 0.5 cm; ± 1.5 cm; ± 3.8 cm;



HOBO® U20 Water Level & Temperature Logger



The HOBO Water Level data logger features high accuracy at a great price and ease-of-use, with no cumbersome vent tubes or desiccants to maintain. This data logger is ideal for recording water levels and temperatures in shallow wells, streams, lakes and freshwater wetlands. Titanium version available.

- Range: 0-4m; 0-9m; 0-30m; 0-76m;
- Resolution: 0.14 cm; 0.21cm, 0.41cm, 0.87 cm
- Accuracy: ± 0.3 cm; ± 0.5 cm; ± 1.5 cm; ± 3.8 cm

HOBO® U20L Water Level & Temperature Logger



The HOBO U20L Series data logger is a low cost, research-grade data logger for continuously measuring water level and temperature in a wide range of underwater environments. It features 0.1% accuracy, a polypropylene housing for use in both fresh and salt water, and a non-vented design for convenient hassle-free deployment.

- Range: 0-4m; 0-9m; 0-30.6m
- Resolution: 0.14 cm; 0.21cm; 0.41cm;
- Accuracy: ± 0.4cm; ± 1.0 cm; ± 3.0 cm

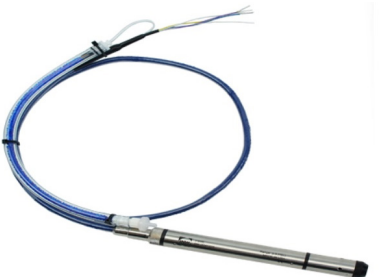
INW PS9800 Water Level Transmitter



INW's patented PS9800 submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard two-wire, 4-20 mA device offers improved noise immunity, thermal performance and transient protection.

- Excitation: 9 – 24 VDC
- Dimensions: 0.84" dia. x 10.75" long
- Output: 4-20 mA
- Static Accuracy: 0.1 %Span2

INW PT12 Water Level & Temperature Transmitter



INW's PT12 SDI-12 submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard SDI-12 v1.3 interface device offers great noise immunity, thermal performance and transient protection.

- Resolution = 1 mm;
- Accuracy = ± 0.1%Full Scale;
- Range of Measurement : Min 3.5 mm; Max >4.0 m

INW PT2X Water Level & Temperature Logger



PT2X is ideal for observing flow patterns, testing pumps, and monitoring groundwater, well, tank and tidal levels. A pressure and temperature sensor with integrated datalogging, this sensor is constructed with 316 stainless steel, fluoropolymer, PTFE—providing highly accurate readings in rugged and corrosive field conditions.

- $\pm 0.05\%$ FSO typical accuracy
- Low power—2 internal AA batteries
- Available in absolute, gauge, or sealed gauge

OTT PLS Water Level & Temperature Transmitter



The OTT PLS measures water level, depth to water, or pressure by means of an integrated controller and ceramic pressure-measuring cell. Design features such as multiple communication outputs (SDI-12 or 4 ... 20 mA), stainless steel housing, and a rugged cable make this sensor ideal for monitoring water level in a variety of applications.

- OTT PLS: Parameters measured: Waterlevel/Pressure, Water temperature
- OTT PLS-C: Parameters measured: Waterlevel/Pressure, Water temperature, Conductivity

OTT Orpheus Mini Water Level & Temperature Logger



The OTT Orpheus Mini is an integrated pressure sensor and datalogger for level measurement in surface and groundwater applications. It features a robust ceramic measuring cell for long term accuracy and its built in datalogger manages and stores all measurements at user-programmable intervals. The Orpheus mini can be paired with the OTT ITC for remote data transmission.

- OTT Orpheus Mini: Parameters measured: Waterlevel/Pressure, Water temperature
- OTT CTD: Parameters measured: Waterlevel/Pressure, Water temperature, Conductivity

OTT ecoLog 500/800 Water Level & Temperature Logger



The OTT ecoLog 500/800 is a complete system for water level and temperature measurement. Designed for full deployment inside groundwater wells as well as surface water applications, the OTT ecoLog 500/800 offers data and alarm message transmission options via SMS, HTTP, FTP and e-mail

- OTT ecoLog 500 Parameters measured: Waterlevel/Pressure, Water temperature
- OTT ecoLog 800 Parameters measured: Waterlevel/Pressure, Water temperature, Conductivity

Sutron Accubar Bubbler (Bubble Gauge)



The Accubar Bubble Gauge is a self-contained, mercury-free and nitrogen-free complete bubbler apparatus designed for low maintenance water level measuring. The Accubar Bubble Gauge tracks rapid level changes by purging the orifice line prior to each measurement which eliminates the time lag produced by constant bubble rate systems when water levels rise rapidly. Using the Sutron Accubar® Gauge Pressure Sensor as the controlling and sensing element, the Accubar Bubbler is an exceptionally stable and highly accurate water level measuring device.



YSI Amazon Bubbler

Designed with simplicity in mind, the Amazon bubbler is the ideal system for long-term, water level monitoring sites. It can be used as a stand-alone system with internal data storage, or as a sensor connected to any manufacturers data logger. Easily configure and collect data using the browser-based graphical user interface with all standard web browsers on PCs, tablets and smart phones. It's rugged build, and technologically advanced system makes the Amazon Bubbler an attractive solution for real-time monitoring and data collection.

Accurately measure stream, lakes, wells, ocean and waste water levels.

Gas Chamber Orifice



The HyQuest Solutions Gas Chamber Orifice (GCO1P) is designed to replace the standard orifice in a gas purge water level measurement system. The GCO1P permits the use of extremely low bubble rates with increased sensitivity and near total reduction of lag between actual level rise and orifice pressure. It can also operate satisfactorily when buried under up to 1m of silt.

- Robust construction
- Non corrosive material
- Flexible Coupling

Sommer RL-15 / RL-35 Water Level Radar Sensor



The RL-15 / RL-35 is a highly accurate measuring device to measure the surface water level without direct contact to the medium.

- Contact-free, maintenance free system
- Measurement range: 15 m resp. 35 m
- Near blanking zone: 0.5 m
- High accuracy: +/- 2 mm
- Interfaces: 4 to 20 mA, SDI-12 is available as an option

Senix ToughSonic 14 Ultrasonic Sensor



The ToughSonic 14 is built for durability and ease of use in tough industrial environments. It's fully submersible, corrosion resistant, shock resistant and all around tough. It's also fully configurable with our SenixVIEW software. ToughSonic 14s include our famous "Teach" feature for push-button configuration. This compact sensor is used around the world on remote liquid level systems, heavy equipment, factory automation applications and more.

- Maximum Range 14 feet (4.3 meters)
- Optimum Range 4 inches - 10 feet (102 millimeters - 3 meters)
- Resolution Digital: 0.0034 inches (0.086 millimeters);
Analog: 4099 steps (0-10 VDC), 3279 steps (4-20 mA)

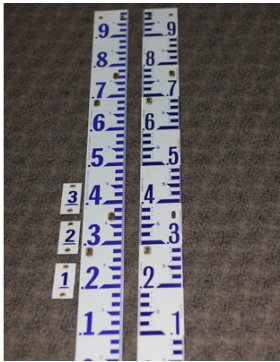
Senix ToughSonic 30 Ultrasonic Sensor



The ToughSonic 30 ultrasonic sensor has a maximum range of 30 feet (9.1 meters). Like all ToughSonic sensors, it's built for durability and ease of use in tough industrial environments. It's fully immersible, corrosion resistant, shock resistant and all around tough. It is also fully configurable with SenixVIEW software.

- Maximum Range 30 feet (9.1 meters)
- Optimum Range 10 inches - 20 feet (25.4 cm- 6.1m)
- Resolution Digital: 0.0068 in. (0.172 mm);
Analog: 4099 steps (0-10 VDC), 3279 steps (4-20 mA)

Staff Gauges



Suitable for measuring water depths in streams, irrigation channels, sewage plants, weirs or flumes, these staff gauges and separate figure plates are designed to be easily read. Designed to the specifications of Water Survey of Canada, the gauges are manufactured from 18 gauge plate steel which is then porcelain coated to resist rust and discoloration. Slotted brass eyelets allow the gauge height to be adjusted during mounting.

Dimensions:

- Staff Gauge 1.0m long x 80mm wide
- Figure Plates 80mm long x 38mm wide

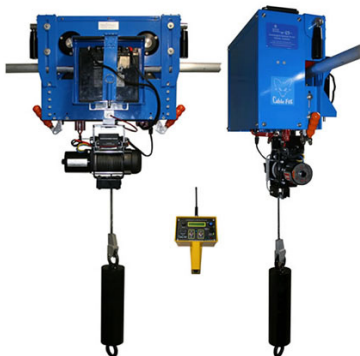
STREAM GAUGING ACCESSORIES

HyQuest Solutions Flying Fox Remote-Controlled Towing System



Using a hand-held control, the Flying Fox is designed to tow floating or suspended items across a straight span of rope. It was designed with tethered boats and ADCP measurements in mind. It may also be possible to use the Flying Fox for other water monitoring needs, such as sending a water quality sonde across an otherwise inaccessible cross-section.

HyQuest Solutions Cable Fox Cableway System



The cable Fox Model (CFX) is HyQuest Solutions latest technology for towing ADCP or setting up a radar system temporarily for measuring water flow.

- Ability to operate on steel cables from 12.7mm to 31.8 mm dia (1/2" to 1-1/4")
- Secures onto cable to prevent accidental detachment
- Traversing speed adjustable from 0.01m/s to 0.60m/s (0.03ft/s to 2.00ft/s)
- Traversing distance measured, with waters edge zeroing
- Ability to raise and lower the ADCP from the water. (Optional)
- Hoist automatically stops when fully raised

HyQuest Solutions WS250/400/500 Stream Gauging Winch

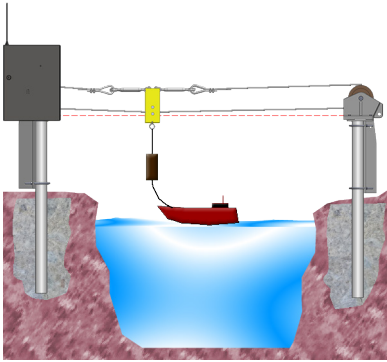


The Models WS250/400/500 Stream Gauging Winch are hand operated single drum winches capable of handling Columbus Gauging Weights up to 45kg (99lbs) using the SAN22SS winch board or 3WBC bridge crane. If the 4WBC Bridge Crane is used the maximum weight capacity rises to 70 Kg (154 lb) for these models.

Load Capacity:

- 70kg (154 lbs) maximum when used with the 4WBC bridge crane.
- 45Kg (99 lbs) when used stand alone on a SAN22SS winch frame or with the 3WBC bridge crane.

Spanmaster Powered cableway



The Span Master with power drive model SMK1/PD is HyQuest Solutions latest innovation that allows the user to concentrate on data collection by remotely operating the traveller block with the ADCP attached across the river in both direction.

- Remotley operated up to 1Km
- Maximum span 100 Metres
- Variable speed control
- Measure traversing distanse
- Better concentration on data collection
- Safer approach to OH&S

REMOTE CONTROL & TETHERED BOATS

ARC-Boat Remote Control Boat



The ARC-Boat is a remote controlled boat that is used to collect river and estuarine data including flow, depth and suspended sediment concentrations. It was developed in partnership with end-users and perfected to meet their exact needs. The boat can carry a variety of Acoustic Doppler Current Profilers (ADCP) and other instruments when required. Twin Engine/Propeller design with skid protection. Detachable nose section for easy of transport. Top Speed: 5 m/s

- high quality data collection with minimal underhull air entrainment
- robust and reliable design
- excellent manoeuvrability

SonTek rQPOD Modular Remote Control Boat



The rQPOD Modular Remote Survey Boat is a lightweight, portable solution for conducting and recording water surveys. With 2 removable, field-serviceable thrusters and colour coded parts and cables for easy assembly, the rQPOD is ready to go wherever you need it.

- 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)



Q-Boat 1800P Remote Control Boat

The Q-Boat 1800P is designed to offer a reliable, high specification remotely-controlled platform for the deployment of popular acoustic Doppler current profilers from any of the major instrument manufacturers. Made of high-impact UV resistant ABS, the Q-Boat 1800P features twin high power outdrives to give a 5 m/s (16 fps) top speed with the security of two engines. The flexible propulsion system allows the Q-Boat 1800P to be equally effective at very low velocities (30 cm/s), providing a total solution to river discharge measurement. Ready for GPS and Oceanscience Hydrolink radio modems, the Q-Boat 1800P is available with an optional extended range remote control system that allows control at over 750m distance.

SonTek HydroBoard II Tethered Boat



The new dive-resistant, flexible body design allows the HydroBoard II to be used anywhere from low velocity irrigation canals to high-velocity mountain streams. Specifically designed with the full forces of nature in mind, the HydroBoard II uses a highly buoyant material, secure mounting hardware for the RiverSurveyor and HydroSurveyor ADP systems, and bright fluorescent laminate for easy detection in larger bodies of water.

- Fits the RiverSurveyor S5/M9 and HydroSurveyor systems.
- Compatible with SonTek GPS and PCM solutions.
- Suitable for discharge measurements in water velocities up to 5 m/s.

Riverboat ST Tethered Trimaran



The Riverboat ST is specially designed for the SonTek S5 or M9 acoustic Doppler current profilers. The trimaran design provides excellent stability and maximizes data quality in a wide range of water velocities and surface conditions. High velocities and standing waves, often problematic with other deployment options, may be handled with more security using the Riverboat ST trimaran. Made of unbreakable polyethylene, the Riverboat ST is strong and can handle tough deployment conditions.

- Maintains instrument orientation for high-quality data
- High quality, unbreakable hulls and outriggers

HSRB-ST Tethered Trimaran for High Speed Waters



For the best data quality in the most challenging measurement conditions, the Oceanscience High-Speed Riverboat is the new benchmark for acoustic Doppler current profiling for discharge measurements. The advanced hull design allows the boat to slice through standing waves and still maintain instrument position and data collection.

- Available for Teledyne RDI and SonTek ADCPs
- Advanced hull design for fast flows and standing waves
- Perfect for problematic sites
- Quick release instrument mount for measurement convenience

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

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