# HIRE CATALOGUE

## HASSLE FREE HIRE

GEOTECHNICS

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To our incredible clients - past, present and future. Thank you for trusting us with your project and for being part of our story.

Each hire, each conversation, and each partnership has helped us grow into the team we are today. We're so proud to support your work and truly grateful to be part of your success.

- With appreciation,
The Geotechnics Hire Team

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HIANZ
Hire Industry Association of New Zealand (Inc.)

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# CONCRETE

## Schmidt Hammers

*Enquire with our team about our rates.

### Original Type N

- Used for non-destructive testing (NDT)
- Provides an indication of crushing resistance of concrete

The Schmidt hammer, also known as a rebound or Swiss hammer is designed for NDT of concrete samples of 100mm or more in thickness, or concrete with a maximum particle size of <32mm. The Schmidt hammer's compressive strength range is between 1,450 and 10,152 psi.

Related Standards: ASTM D5873, ASTM C805, BS 1881: Part 202

## Rebar Detector - Profoscope+

*Enquire with our team about our rates.

- Estimates cover depth and rebar diameter
- Detects rebar with the 'real-time' view onscreen
- Single handed and cordless operation
- Memory storage capability of recording data manually or automatically

The Profoscope+ has the capability to transfer the measurements recorded for analysis on the ProfoLink software.

Related Standards: BS1881 part 204, DIN1045, SN 505 262, DGZfP B2.

## Press-Ur-Meter Air Meter H2786

*Enquire with our team about our rates.

- Adjustable brass cover clamps
- Easy to read, 4" diameter, direct percentage gauge
- All-brass super pump - the most reliable and highest quality pump avaliable

The Press-Ur-Meter H2786 is designed to determine air content, determination of specific gravity and free moisture test of aggreagates.

It is also designed to save time, reduce water used, ensure accuracy and maintain sample integrity.

## Hand Auger

*Enquire with our team about our rates.

- Used to gather soil samples from depth, or to create access for other testing
- Thread connections between all parts for easy assembly
- 50mm, 70mm and 100mm auger heads available (subject to availability)
- Ideal for cohesive soils such as clays

This kit consists of a 50mm head, 1.0m extension rods up to 5m, a handle, wire brush and Stilsons in a canvas carry bag.

## Scala/ Auger Puller

*Enquire with our team about our rates.

- Weighs 7.5kg
- Works with both Scala Pentrometers and Hand Augers
- Can be hired seperately or within a kit

The Scala/ Auger Puller makes Scala removal easy. The extractor hooks onto the extension rods and pulls the Scala out of the ground by pushing the lever. The extractor is also avaliable with an Auger

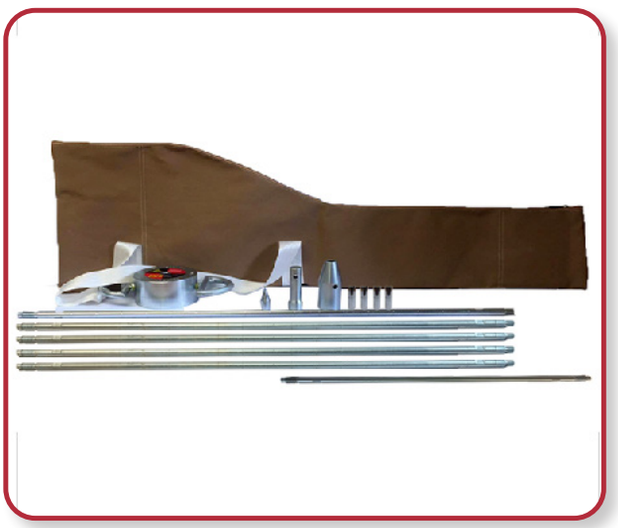
## Scala Penetrometer

*Enquire with our team about our rates.

- Used to determine the penetration resistance of a soil at depth
- Manufactured in accordance with NZS 4402

The kit includes 1.0m extension rods up to 5m, joiners, anvil, handle, drop-weight and guide rod in a canvas carry bag. A Scala extractor is also available within the kit and is recommended for safe retrieval of Scala extension rods.

Related Standard: NZS 4402



## Shear Vane – Geovane

*Enquire with our team about our rates.

- Measures the shear strength of cohesive soils
- Measures up to 200 kPa with a 19mm blade
- 33mm blade available for less cohesive soils (subject to availability)

The Geovane is NZ made and comes with an extension rod adaptor, 2 spanners for easy removal of the vane and a hard carry case. The kit is available with up to 5m of extension rods. Some units are available with a 33mm vane blade which is used to test soft/less cohesive soils, up to 40 kPa.

Related Standards/Documents: BS1377 Part 9, NZGS Guideline for Hand Held Shear Vane Test

## Shear Vane Extension Rods in PVC Bag

*Enquire with our team about our rates.

- Measures 1m in length
- Packaged in PVC bag
- Can be hired seperately or within a kit

Shear Vane Extension Rods screw onto the hand-held Shear Vane Torque Head via a small adaptor. Rods then fit into each other, meaning only one adapter is required, regardless of how many metres of extension are being used. The Shear Vane Blade screws directly into the bottom of the extension rods.

## Geotechnics Impact Tester

*Enquire with our team about our rates.

- Provides an impact value (IV) for inferred CBR values
- Easy one-button operation
- Meets both ASTM and AS standards

Our impact testers are New Zealand made and have a range of 0 to 100 (IV), making it suitable for use on both foundations and road surfaces. The equipment comes with a rugged transit case complete with 2 cables, a user manual and a test ring for daily checks.

Related Standard: ASTM D5874

## Nuclear Density Meter (NDM) - Humboldt & Instrotek

*Enquire with our team about our rates.

- Used for density and moisture testing
- Ideal for soils, aggregate and asphalt
- Dangerous goods documents included

The NDM measures density through direct transmission and backscatter modes (also includes thin lift and trench modes) as well as moisture readings. The gauge uses advanced microprocessor-based technology to provide highly accurate measurements. Density and moisture readings are automatically computed for direct wet density, dry density, moisture content, percentage compaction (Proctor or Marshall), void ratio and air voids measurements. The gauge is calibrated by the five-block calibration method to meet NZ standards.

Compliance with standards: ASTM D6938, D2950, C1040 and AASHTO T310

Related Standards: NZS 4402 and NZS 4407

Related Consumables: NDM cleaning kit (NDMCK)

A license issued by the Office of Radiation Safety is required to hire this instrument.

## Radiation Alert - Survey Meter

*Enquire with our team about our rates.

A handheld survey meter used alongside our Nuclear Density Gauges (Instrotek and Humboldts etc) ensuring safe operation and compliance. These units provide instant audible and visual alerts, with a clear digital display for quick radiation checks anywhere. Ideal for site safety monitoring and confirming equipment is operating within limits.

## Instrotek NoNuke - Non-nuclear Thin Lift Asphalt Gauge

*Enquire with our team about our rates.

The NoNuke measures asphalt density using advanced dielectric technology, eliminating the need for radioactive sources. Automated system checks
alert the operator to issues such as surface roughness,
moisture presence, or improper contact to help ensure reliable
and repeatable readings. Density values are instantly displayed and can be stored, exported via USB, or transferred through the companion mobile app, which also allows GPS tagging, photos, and branded reporting.
Compliance with standards: ASTM D7113, AASHTO T343
Related Consumables: N/A

## Portable Earth Resistance and Soil Resistivity Meter

*Enquire with our team about our rates.

SONEL MRU-GPS200 Earth Resistance Tester

- Measures earth resistance and soil resistivity
- Ideal for earthing verification, commissioning and soil surveys
- Includes GPS logging and extended-range test leads

The MRU-GPS200 performs precise earth resistance and ground resistivity measurements using multiple test methods, including the four-pole and clamp techniques. Results are automatically stored with GPS coordinates for accurate reporting and traceability. The kit includes all standard accessories plus two additional 100 m high-quality fast-measuring leads, providing extended reach for large sites or remote electrode setups.

## l100m High Quality Test Leads (for Earth Resistance Kit)

*Enquire with our team about our rates.

- 100 m reels of fast measuring, high quality test leads
- Designed for extended range earth resistance and soil resistivity testing
- Compatible with our main earth resistance unit and available for hire as an add on or standalone item

These high quality test leads provide the reach and flexibility required for large scale or remote electrode layouts. Whether used alongside our main earth resistance tester or independently for extended setups, they're engineered for accuracy, durability and ease of deployment. Ideal for civil engineering, infrastructure, geotechnical and site survey applications where measurement range and precision matter.

## MiniRAE 3000 (PID)

*Enquire with our team about our rates.

- Measures Volatile Organic Compounds
- (VOCs) in ppm, up to 15,000ppm
- Simple three-button operation
- Built in correction factors

Useful screening tool for site investigation
The MiniRAE 3000 is ideal for photoionization detection. The 10.6 eV lamp covers the broadest range of VOCs with a range from 0 – 15,000 ppm. It is also equipped with data logging functions, audible and visual alarms and an integrated flash light. PID is a broad- spectrum monitor but is not selective and has limited ability to distinguish a specific VOC. If the sample is suspected to contain a particular VOC, correction factors can be applied to estimate its concentration.

Applications: Oil and gas, HazMat, industrial safety, civil defence, environmental and indoor air quality, leak detection, worker exposure.

Related Consumables: Water trap filter

| Sensor | Detection Principle | Measuring | Range | Resolution |
|---|---|---|---|---|
| PID Lamp (10.6 eV) | Photoionization | VOCs (calibrated to Isobutylene) | 0-15,000 ppm | 0.1 ppm (0-999.9 ppm) |
| | | | | 1 ppm (1,000 - 15,000ppm) |

## Eagle 2 - Single Gas Detector

*Enquire with our team about our rates.

- Primarily used for Instantaneous surface
- measurement
- Measures methane concentrations in parts per
- million (ppm), percentage of the Lower Explosive Limit (%LEL) and percentage volume (%Vol.)
- Ergonomic handle allows 1 handed operation
- Large, glove-friendly buttons
- Sampling probe for instantaneous surface measurements and leak investigation

The EAGLE 2's internal pump enables sampling from 38 m away and can continuously operate for 20 hours on the Ni-MH batteries they are provided with. The EAGLE has visual and audible alarms, triggered by gases exceeding the set alarm limits making it suitable to monitor methane gas levels. Comes with sampling hose and probe.

Applications: Leak investigation, landfill monitoring, instantaneous surface measurements (ISMs)

Related Consumables: Hydrophobic filter disc for probe (EAGLE2 Sampling Probe)

| Sensor | Detection Principle | Measuring | Range | Accuracy (whichever is greater) |
|---|---|---|---|---|
| Combustible | Catalytic Combustion | CH4 | 0-50,000 ppm<br>0-100% LEL | 5% of reading or 2% LEL |

# MULTI-GAS DETECTORS

## Eagle 2 Multi-Gas Detector

*Enquire with our team about our rates.

- Detects up to five different gases simultaneously
- Audible and visual alarms
- Ergonomic handle and large, glove-friendly buttons
- Sampling probe and hose

This unit is equipped with multiple sensors to detect up to 5 gases. It has the same features and sensor as our Single-Gas model Eagle 2 to measure methane in ppm levels, but is also able to detect carbon dioxide, oxygen, hydrogen sulphide

| Sensor | Detection Principle | Measures | Range | Accuracy (whichever is greater) |
|---|---|---|---|---|
| Combustible | Catalytic | CH4 | 0-100%LEL<br>0-5.0%Vol | 5% of reading or 2% LEL |
| | | | 0-50,000ppm | 50ppm or 5% of reading |
| Oxygen | Galvanic | O2 | 0-40 %Vol | 0.5% O2 |
| Carbon Monoxide | Electrochemical | CO | 0-500ppm | 5% of reading or 5ppm CO |
| Hydrogen Sulphide | Electrochemical | H2S | 0-100ppm | 5% of reading or 2ppm H2S |
| Carbon Dioxide | Infra-red | CO2 | 0-60%Vol | 5% of reading or 2% of full scale |
| Combustible | Infra-red | CH4 | Auto-ranging LEL, 0-100%Vol | |

## Five-Gas - MultiRAE Lite

*Enquire with our team about our rates.

- Measures: Volatile Organic Compounds (VOCs), Methane (CH4), Hydrogen Sulphide (H2S), Carbon Monoxide (CO), Oxygen (O2)
- Personal gas detector, work area monitor
- Datalogging

The MultiRAE Lite is a powerhouse portable gas detector with the ability to monitor up to five gases simultaneously. It's equipped with audible and visual alarms to alert the user of potentially hazardous atmospheric conditions as well as data logging function to record gas concentrations.

Applications: Personal protection and multi-gas leak detection in chemical, food & beverage, oil and gas, pharmaceutical, telecommunications and wastewater treatment industries, fire overhaul, confined space entry, indoor air quality, clandestine labs and worker exposure/safety.

Related Consumables: Water trap filter (MultiRAE)

| Sensor | Detection Principle | Measuring | Range | Resolution |
|---|---|---|---|---|
| Combustible | Catalytic Combustion | CH4 | 0-100% LEL | 1 %LEL |
| Oxygen | Galvanic Cell | O2 | 0-30 %Vol. | 0.1 %Vol. |
| Hydrogen Sulphide | Electrochemical Cell | H2S | 0-100 ppm | 0.1 ppm |
| Carbon Monoxide | Electrochemical Cell | CO | 0-500 ppm | 1 ppm |
| PID Lamp (10.6 eV) | Photoionization | VOCs (Calibrated to isobutylene) | 0-1,000 ppm | 1 ppm |

## GA5000 Site Investigation Portable Gas Analyser

*Enquire with our team about our rates.

- Measures $CH_4$, $CO_2$, $H_2S$, CO and $O_2$
- Essential for site investigation, contaminated land, landfill gas monitoring, and waste-to-energy projects
- Logs gas flow and pressure from boreholes with ease
- Customisable user and site IDs for fast, organised data collection

The GA5000 is a robust, ATEX-certified portable gas analyser built for professionals who demand accuracy and efficiency in the field. With standardised monitoring routines, configurable user- and site-specific IDs, and the ability to record gas, borehole flow, and pressure data, it streamlines your workflow from field to report. Data can be exported directly into Excel for fast, reliable analysis - making the GA5000 the go-to choice for environmental teams tackling complex site investigations, landfill gas monitoring, contaminated land assessments, and waste-to-energy projects.

Applications: Site investigation, contaminated land assessment, landfill gas monitoring, waste-to-energy projects
Related Consumables: Water trap filter (GA5000), Gas well tricap with QC fitting (TRICAPGAS), QC fitting with sampling hose for tricap (TRICAPGASQC)

| Sensor | Detection Principle | Measuring | Range | Accuracy |
|---|---|---|---|---|
| Combustible | Dual wavelength infrared sensor with reference channel | CH4 | 0-100 %Vol. | 0-70%Vol. ±0.5%Vol. 70-100%Vol. ±1.5%Vol. |
| Carbon Dioxide | Dual wavelength infrared sensor with reference channel | CO2 | 0-25 %Vol. | ±1.0%Vol. |
| Oxygen | Electrochemical Cell | O2 | 0-25 %Vol. | ±1.0%Vol. |
| Hydrogen Sulphide | Electrochemical Cell | H2S | 0-50 ppm | ±1.5% FS |
| Carbon Monoxide | Electrochemical Cell | CO | 0-500 ppm | ±2.0% FS |

## MicroClip XL

*Enquire with our team about our rates.

- Measures Carbon Monoxide (CO), Hydrogen Sulphide (H2S), and Oxygen (O2)
- Records gas in hazardous environments
- The only multi-gas detector with a rating of IP68 for unmatched water protection — up to 45 minutes at a depth of 1.2 m

The MicroClip XL is a compact, lightweight multi-gas detector. It's durable, rechargable lithium battery is tested to last in extreme environments. It has a guaranteed runtime for at least a 12-hour shift — down to -20°C — without compromising LEL detection of hydrogen, acetylene and other combustible gases.

The MircoClip XL features a flashing green IntelliFlash™ light for compliance at a glance, indicating detector has been bump tested and is monitoring correctly.

Applications: Landfill gas monitoring, waste to energy, site investigation.

Related Consumables: Water trap filter (GA5000), Gas well tricap w/ QC fitting (TRICAPGAS), QC fitting with sampling hose for tricap (TRICAPGASQC).

| Sensor | Detection Principle | Measuring | Range | Accuracy |
|---|---|---|---|---|
| Oxygen | Electrochemical Cell | O2 | 0-30 %Vol. | ±1.0%Vol. |
| Hydrogen Sulphide | Electrochemical Cell | H2S | 0-100 ppm | ±1.5% FS |
| Carbon Monoxide | Electrochemical Cell | CO | 0-500 ppm | ±2.0% FS |

## Four-Gas - GX2012

*Enquire with our team about our rates.

- Measures Methane (CH4, %LEL), Hydrogen Sulphide (H2S, ppm), Carbon Monoxide (CO, ppm),
- Oxygen (O2, %Vol.)
- Confined space personal monitor
- Ability to sample 15m away from potentially
- dangerous areas
- Datalogging

The GX-2012 is a simple-to-use personal gas detector, typically used for confined space applications. It measures the standard confined space gases (methane, carbon monoxide, oxygen and hydrogen sulphide) and is equipped with audible and visual alarms to alert the user of gas concentrations that exceed the pre-programmed limits. The internal pump enables sampling up to 15 m away from potentially dangerous atmospheres.

Applications: Confined space entry, emergency response, environmental, fire service, industrial safety, oil and gas applications, and worker exposure/personal safety.

Related Consumables: Hydrophobic filter disc (GX2012)

| Sensor | Detection Principle | Measuring | Range | Accuracy (whichever is greater) |
|---|---|---|---|---|
| Combustible | Catalytic Combustion | CH4 | 0-100% LEL | 5% of reading or 2% LEL |
| Oxygen | Galvanic Cell | O2 | 0-40 %Vol. | 0.5% O2 |
| Hydrogen Sulphide | Electrochemical Cell | H2S | 0-100 ppm | 5% of reading or 2ppm H2S |
| Carbon Monoxide | Electrochemical Cell | CO | 0-500 ppm | 5% of reading or 5ppm CO |

# DATA LOGGERS & RECORDERS

## Vibrating Wire Data Recorder - Slope Indicator VW Data Recorder

*Enquire with our team about our rates.

- Labelled ports
- Suitable for any pluck-type vibrating wire sensors, RTDs and thermistors

Readings can be stored and transferred to a computer for processing. Frequency units can be Hz or Hz squared, sweep frequency, RTD or thermistor. Related Standard: ASTM D5874

# NOISE & VIBRATION

## 01DB FUSION Expert Sound Level Meter, Class 1

*Enquire with our team about our rates.

- Meets specifications in IEC 61672 for
- Class 1 tolerances
- Built-in preamplifier
- 118 dB dynamic range
- Self-check system
- Automatic calibrator detection (97.3Hz)
- All-in-one Wi-Fi, 3G modem, GPS
- Advanced triggers
- Metrological and MP3 audio recording
- Comes with matching calibrator
- Optional: Outdoor monitoring kit

This multi-purpose sound level meter can be used as a control instrument that offers evaluation, analysis and monitoring capabilities for noise monitoring applications. Optional outdoor monitoring kit comes with 10m cable, separate preamplifier and noise cone

Specific electronic corrections are already implemented in the FUSION to satisfy the 0° and 90° reference directions. Pair the Fusion sound level meter with our MR3000C vibration monitor for your next noise & vibration monitoring round.

Related standards: IEC 61672

## Syscom MR3000C Vibration Monitor

*Enquire with our team about our rates.

- Internal triaxial geophone sensor
- Internal data recorder
- Internal 4GB memory plus removable SD card
- IP65 protection from dust and water
- 12V external battery pack or mains power
- GPS, internal 4G modem (3G/2G backup)
- Wireless connectivity
- FTP push network capabilities
- Automatic SMS and E-mail alerts
- Separate background and event files
- User-defined alarms for each axis
- Standard-defined alarms (DIN 4150-3, SN 640312, Circulaire du 23/07/19896)
- Optional: Long-term monitoring kit with storage/transport case, solar panel and deep cycle battery

The MR3000C is a compact vibration monitor packed with features and technology that makes it the first choice among engineers. The internal 4G modem allows the MR3000C to connect to FTP networks for convenient file transfers as well as customisable SMS and E-mail alerts. Power can be supplied using a 12V battery or connected to a mains power for long-term monitoring. For remote areas, a 12V battery and solar panel can be utilised.

Related Standards: ISO 8041, ISO 2631

## Sound Level Meter with Type 1 Microphone (NSRTW Mk4)

*Enquire with our team about our rates.

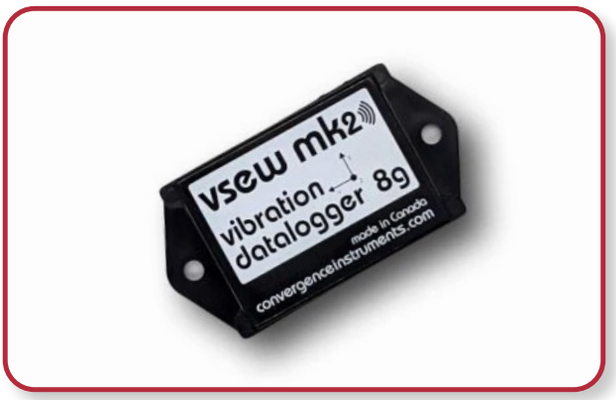
A compact, WiFi-enabled sound level meter with a Type 1 digital MEMS microphone. Features A, C, and Z frequency weightings, real-time data logging, and configurable alerts for threshold exceedances. Designed for accurate, continuous noise monitoring with cloud connectivity for easy data access and reporting.

Related Standards: IEC 61672-1 Class 1, ANSI S1.4

## Vibration Meter Data Logger (VSEW Mk2)

*Enquire with our team about our rates.

A 3-axis MEMS accelerometer vibration logger measuring acceleration, velocity, and inclination. Supports continuous data collection with cloud access, configurable alerts, and long-term monitoring. Built for reliable, high-resolution vibration logging and easy data management.



## Peristaltic Pump - Solinst Model 410 Peristaltic Pump

*Enquire with our team about our rates.

- Groundwater and surface water applications
- Low flow sampling
- Vapour sampling
- 12V power required

The reversible flow 410 Peristaltic Pump is ideal for vapour and water sampling from shallow wells and surface water.
The minimalistic design makes it easy to use.
Sampling rates vary from 120 ml/min to 3.5 L/min with the 5/8" (16mm OD) silicone tubing. For lower sampling rates of around 900 ml/min to 40ml/min, the 3/8" (10mm OD) silicone tubing and low-flow tubing adaptor must be used. The large thumb screws at the drive head housing make switching between tubing sizes or replacing tubes efficient and hassle free.

Related Consumables: Silicone tubing (SILICONETUBE3/8, SILICONETUBE5/8) LDPE tubing (ENV6TUBINGBIO, ENV9TUBINGBIO), Inline filters (APB500, APB800)

| Max Flow Rate | Recommended Max Lift | Tubing Sizes |
|---|---|---|
| 43.5 L/min<br>(with 5/8" silicone tubing)<br>900 ml/min<br>(with 3/8" silicone tubing) | 10 m at sea level | 3/8" LDPE<br>(with 5/8" silicone tubing)<br>¼" LDPE<br>(with 3/8" silicone tubing) |

## ALL IN ONE - Spectra Field Pro III Peristalic Pump - VOC Sampling

*Enquire with our team about our rates.

The Spectra Field Pro III is an award-winning, professional-grade peristaltic pump designed for precise low-flow groundwater and surface water sampling. Built for demanding field conditions, its all-in-one design combines the pump, 12V controller, battery and charger into a single portable unit.

The top-angled pump head helps keep tubing away from potential ground contaminants, while smart electronics maintain consistent pump speed throughout approximately 90% of the battery life. Capable of flow rates as low as 25 mL/min and sampling depths up to 29 ft (8.8 m), the Field Pro III provides precise flow control for shallow groundwater and environmental sampling.

Its rugged aluminium construction, integrated storage space and simple tubing changes make it well suited to regular field use.

Specifications

- Pump Type: Peristaltic
- Maximum Sampling Depth: Up to 29 ft (8.8 m)
- Minimum Flow Rate: 25 mL/min
- Pump Controller: Built-in 12V controller
- Battery: Integrated
- Charger: Integrated
- Storage Capacity: 4,300 $cm^3$
- Weight: 24 lb (10.8 kg)
- Construction: Aluminium case
- Pump Head: Top-angled design

Applications

- Low-flow groundwater sampling
- Shallow monitoring wells
- Surface water sampling
- Environmental and compliance monitoring
- Soil and water contamination investigations
- Mine and wastewater monitoring
- Industrial fluid handling
- Laboratory and research applications

## Spectra Hydro Pro Controller

*Enquire with our team about our rates.

The Spectra Hydro Pro Controller is a professional-grade pump controller featuring a powerful built-in 120 PSI air compressor - eliminating the need for a separate external compressor or compressed air supply in the field.

Designed for precise control of bladder and pneumatic pumps, the Hydro Pro provides an all-in-one, portable solution for groundwater sampling and remediation. Its microcontroller-based operation and variable flow control allow users to easily adjust pump performance to suit different well depths and sampling requirements.

Capable of operating pumps at depths of up to 300 ft (91 m), the Hydro Pro combines its internal full-duty-cycle compressor with a rugged, field-ready design and intuitive display for reliable operation in demanding environments.

Best paired with Spectra Bladder Pump Heads for a simple, integrated sampling setup.

Applications

- Low-flow groundwater sampling
- Bladder pump operation and control
- VOC and PFAS sampling
- Groundwater purging
- Well remediation
- Contaminated site investigations
- Hydrogeological studies
- Environmental monitoring
- Remote and off-grid field sampling

Specifications

- Internal Air Compressor: Built-in, 120 PSI
- Compressor Duty Cycle: Full duty cycle
- Power Supply: 12V DC
- Pump Compatibility: Bladder and pneumatic pumps
- Maximum Operating Depth: Up to 300 ft (91 m)
- Flow Adjustment: Variable control dial
- Control System: Microcontroller-based
- Display: Integrated digital display

## Spectra Sil 2.0 Bladder Pump Head

*Enquire with our team about our rates.

The Spectra Sil 2.0 is an award-winning bladder pump head designed for precise and efficient groundwater sampling. Suitable for 2" wells and larger, it supports low-flow, VOC and PFAS sampling at depths of up to 300 ft (91 m).

Its patented design minimises disturbance to the water column, helping produce representative groundwater samples with low turbidity and minimal agitation. Durable and easy to deploy, the Sil 2.0 is suited to both routine monitoring and demanding field applications.

Best paired with the Spectra Hydro Pro Controller for easy operation.

Applications

- Low-flow groundwater sampling
- VOC and PFAS sampling
- Environmental and compliance monitoring
- Contaminated site assessments
- Well remediation and recovery
- Landfill monitoring
- Mine water monitoring
- Aquifer and water resource monitoring
- Shallow and deep monitoring wells

Specifications

- Minimum Well Diameter: 2" (50.8 mm)
- Maximum Operating Depth: 300 ft (91 m)
- Sampling Method: Pneumatic bladder / low-flow
- Air Line: 1/4" tubing
- Water Line: 3/8" tubing
- Well Suitability: 2" wells and larger
- Applications: Sampling and remediation
- Recommended Controller: Spectra Hydro Pro Controller

## Spectra Micro Bladder Head 0.85

*Enquire with our team about our rates.

The Spectra Micro Bladder Head 0.85 is a compact groundwater sampling pump designed for low-flow sampling in narrow, low-yield or difficult-access monitoring wells.

With a slim 0.85" diameter and 8" length, it is well suited to restricted or bent wells where standard bladder pumps may not fit.

Delivering approximately 13 mL per stroke, the pump enables controlled, low-flow groundwater sampling with minimal disturbance, making it suitable for environmental monitoring and sensitive analytical applications. Standard 1/4" air and water tubing simplifies setup and connection to compatible sampling equipment.

Best paired with the Spectra Hydro Pro Controller for easy operation.

Applications

- Low-flow groundwater sampling
- VOC and PFAS sampling
- Environmental and compliance monitoring
- Contaminated site assessments
- Well remediation and recovery
- Landfill monitoring
- Mine water monitoring
- Aquifer and water resource monitoring
- hallow and deep monitoring wells

Specifications

- Maximum Operating Depth: Up to 300 ft (91 m)
- Air Line: 1/4" tubing
- Water Line: 3/8" tubing
- Sampling Method: Pneumatic bladder / low-flow
- Well Suitability: 2" wells and larger
- Recommended Controller: Spectra Hydro Pro Controller

## Plastic Submersible Pump – SuperTwister

*Enquire with our team about our rates.

- Operates well with sediment-laden water
- Vertical and horizontal application
- No support line required
- Fully submersible to 25m
- Powered by portable 12V battery or car battery
- Fits into 50 mm well

This submersible plastic pump is an easy option for well purging with flow rates up to 9.4 L/min at 3 m depth.
The heavy duty 12 gauge lead wires means a support line is not needed making it portable and versatile. Simply connect the lead wires at the surface to the supplied 12V battery (or car battery). The Super Twister can withstand sediment laden waters and is not confined to vertical applications.

Related Consumables: LDPE Tubing (BTLDPE1/2), Inline Filters (APB500, APB800) tubing (ENV6TUBINGBIO, ENV9TUBINGBIO), Inline filters (APB500, APB800)

| Pump Diameter | Max Flow Rate | Tubing Sizes |
|---|---|---|
| 46.2 mm | 1.8 L per min. at 25 m | ½" LDPE |

## 2.4m Telescopic Sampling Pole & Container

*Enquire with our team about our rates.

Safely collect liquid samples from hard-to-reach areas like tanks, pits, and waterways. This lightweight, extendable pole eliminates the need to bend over deep ledges, keeping operators safe.

**Key Features:**

- **2.4m Reach:** Smooth telescopic extension for easy access to deep or distant sampling points.
- **Secure Bottle Holder:** Adjustable mount keeps the sample container firmly in place during submersion.
- **Lightweight & Durable:** Heavy-duty, corrosion-resistant build designed for easy field use.
- **Included:** 1 x 2.4m Telescopic Pole, 1.2L x Bottle Holder, 1 x Sampling Container.

**Ideal For:** Wastewater testing, environmental water monitoring, and industrial chemical sampling.

## Solinst Leveloggers M5, M10, M20, M30, M100 & Barologger

*Enquire with our team about our rates.

- All-in-one pressure transducer + datalogger
- 22mm diameter
- Ideal for long-term background water level monitoring, pump tests, rising-and-falling head tests
- Special long-term hire rates available

The Levelogger is a self-contained water level datalogger utilising a pressure sensor, temperature detector, 10-year lithium battery and convenient sampling options.

The water pressure above the Levelogger sensor is recorded as well as the atmospheric pressure resulting in total pressure. A Barologger is deployed in conjunction to compensate the readings for atmospheric pressure. Together, they provide accurate water level readings above the pressure sensor of the Levelogger which can be easily animated in a graph, or .CSV file with the free Levelogger software.

Related Consumables: Kevlar deployment cable (KEVLARLINE), Eye bolts (PRO1.3)

| Models | Full Scale (FS) | Accuracy |
|---|---|---|
| Barologger | Air Only (no submergence) | ± 0.05 kPa |
| M5 | 5 meter submergence | ± 0.3 cm |
| M10 | 10 meter submergence | ± 0.5 cm |
| M20 | 20 meter submergence | ± 1 cm |
| M30 | 30 meter submergence | ± 1.5 cm |
| M100 | 100 meter submergence | ± 5 cm |

## Levelogger Accessories

Leveloggers and Barologgers can connect to laptops, tablets and PCs using a variety of methods to download data, set up logging intervals and details of the logger. Combined with the free Levelogger Software (from www.solinst.com/downloads/), makes data processing streamlined and hassle free. These have all the same rates as shown in the table below.e sensor of the Levelogger which can be easily animated in a graph, or .CSV file with the free Levelogger software.

Related Consumables: Kevlar deployment cable (KEVLARLINE), Eye bolts (PRO1.3)

*Enquire with our team about our rates.

## Levelogger App Interface (Bluetooth)

Connect to your Levelogger or Barologger wirelessly through bluetooth technology from your tablet or mobile phone. Once connected you can view and download using the Solinst Levelogger App and the data can be exported via email or to the cloud.

## Datagrabber

The most portable option and time-saving option for downloading data from Leveloggers or Barologgers. With a push of a button, all data is downloaded into the USB flash drive. Datalogging and other settings are not disrupted using this method, the data also remains on the logger after download is complete

## Optical Communication Cradle

The cradle connects to a PC via USB to download straight a file directory of your choosing with the free Levelogger Software. Ideal for downloading/ programming a number of leveloggers in the office.

## YSI ProDSS Water Quality Meter

*Enquire with our team about our rates.

- Rugged handheld water quality meter (IP-67 rated)
- Digital smart sensors with automatic sensor recognition
- Measures: pH, ORP, conductivity, turbidity, temperature & ODO
- Fast sensor response time for efficient fieldwork
- Colour display with intuitive interface
- Compatible with our Buffer Solution Test Kit

The YSI ProDSS is a top-performing, handheld multiparameter instrument built for a range of different conditions. Designed for ease of use and durability, it features digital smart sensors, a tough waterproof housing, and a bright, full-colour display for clear visibility in all environments.

Ideal for both short-term jobs and longer hires, the ProDSS measures key water quality parameters including pH, ORP, conductivity, temperature, optical dissolved oxygen (ODO), as well as Turbidity.

Fast sensor response, easy use, and dependable accuracy make this a favourite for consultants, researchers, and environmental professionals.

Turbidity measurement is available as an optional add-on for an additional fee.

## YSI Buffer Solution Test Kit

*Enquire with our team about our rates.

Stay prepared in the field with our optional YSI Buffer Solution Test Kit, designed to support accurate calibrations across multiple sites or extended hires. Each kit includes 100ml containers of pH 4, pH 7, pH 10, ORP, Conductivity, and DI Water solutions – ideal for use with our YSI ProPlus, ProQuattro, and ProDSS units. Need turbidity calibration too? Add our turbidity solution for a small additional fee. Compact, reliable, and field-ready.

Note: To maintain accuracy, each solution is best used once or twice. Discard any used solution - never pour back into the original container after use. * Turbidity to ONLY be used ONCE.

## Manta 30 Water Quality Probe – pH, ORP, DO, Conductivity & Turbidity

*Enquire with our team about our rates.

- Depth Sensor
- 3m or 20m cable options
- Solinst EBP (External Battery Pack) for wireless, autonomous logging. (Additional)
- Measures pH, ORP, dissolved oxygen, conductivity, and turbidity simultaneously
- Optical DO sensor for stable, low-maintenance readings
- Integrated turbidity sensor for suspended solids and water clarity
- Supports spot measurements and unattended monitoring
- Compatible with Bluetooth tablets and logging software (configuration dependent)
- Suitable for freshwater, estuarine and wastewater applications

The Manta 30 is a smart, multiparameter water quality probe designed for easy, efficient monitoring. With pH, ORP, optical dissolved oxygen, conductivity and turbidity sensors built into a single unit, it delivers all the key measurements you need in one go.

Setup is simple - calibration is quick and straightforward, and the probe connects via Bluetooth to tablets or smartphones, letting you view live readings, log data, and configure the instrument without ever touching a cable.

Using the dedicated app, you can set logging intervals, view historical data, and export your results on the spot, making it ideal for environmental surveys, groundwater and surface water monitoring, or wastewater assessments. The interface is intuitive, and the optical DO and turbidity sensors are low maintenance, so you spend less time worrying about the instrument and more time collecting reliable data.

## YSI ProQuatro (Multi-parameter Handheld Device)

*Enquire with our team about our rates.

- Water resistant IP-67 rating
- Built in barometer
- Flow Cell available
- Datalogging, interval or single-event
- Detailed on-screen 'Help' function
- Free data manager software

The ProQuatro from YSI comes with either a 1-m or 4-m cable with 4 sensors that measure 5 parameters simultaneously. The optional flow cell makes the YSI a perfect companion for groundwater monitoring with peristaltic pumps or other low-flow pumps.

A new feature integrated into the new Quatro handheld is the ability to download data On-The-Go with the micro-USB OTG cable and USB stick, making data transfers much simpler than before.

| Measured Parameters |
| --- |
| Dissolved Oxygen (DO in %, mg/L) |
| pH (units) |
| Conductivity (uS/cm, mS/cm) |
| ORP (mV) |
| Temperature (°C,°F) |

## Water Level Meters

The water level meter provides quick and easy depth to water level measurements in wells, boreholes, standpipes and tanks. Two models are available for hire.

*Enquire with our team about our rates.

## Solinst Model 101 Water Level Meter

The Model 101 Water Level Meter features a 100m polyethylene tape and P7 probe. This probe is designed to be submerged down to 300m, making it ideal for deep well measurement. The dog-bone design of the tape reduces friction when lowering or retrieving the probe and reduces the chance of the tape sticking to the side of wet well pipes. The stretch-resistant tape reads accurately to each millimetre and the sensitivity dial helps to locate the water surface.

Related Consumables: Decon 90 (DECON90), Liquinox (2088117)

## Solinst Model 102 Water Level Meter

The Model 102 Water Level meter features a 60m coaxial cable and P10 probe, designed to use in narrow diameter wells where the rigid P2 probe may not be able to pass. The P10 probe's segmented weights, measuring only 10mm in diameter, allow it to manoeuvre through possible obstructions in wells. A mini-102 Water Level Meter is available in a 25m length for convenience and portability and a 6mm-diameter probe designed for CMT systems.

Related Consumables: Decon 90 (DECON90), Liquinox (2088117)

## Solinst Model 122 Interface Meter

*Enquire with our team about our rates.

- Detects LNAPL and DNAPL
- Indicates water-product interface
- Easy to read white-tape with dog-bone design
- ATEX certified
- CSA Intrinsically safe

Light, Non-Aqueous Phase Liquids (LNAPL) and Dense Non-Aqueous Phase Liquids (DNAPL) can be detected with the Model 122 Interface Meter.

This meter features a narrow (16mm), pressure-proof probe which can read accurately to 1 millimetre. Using optical refraction and electrical conductance, the meter distinguishes product with a continuous light and tone and water is indicated with intermittent signals. These meters are ATEX certified – intrinsically safe for use in explosive environments. The Model 122 Interface Meters is also equipped with a dog-bone design to reduce wall-tape hang-ups for easy deployment and retrieval with the tape guide.

Related Consumables: Decon 90 (DECON90), Liquinox (2088117)

## Solinst TLC Meter

*Enquire with our team about our rates.

- Rugged Solinst reel and accurate tape
- Lengths to 300 ft. (100 m), probe dia. is 3/4" (19 mm)
- Display that rotates for easy reading
- Standard 9V alkaline battery gives 90 hrs. of use
- Auto-Off after 8 minutes

The Model 107 TLC Meter enables accurate profiling of water temperature and conductivity in aquifers, and open water bodies.

Water level and probe depth measurements are read off the accurate Solinst flat-tape marked every 1/100 ft or each millimeter.

## 200M HERON LEACHATE & LEVEL METER

*Enquire with our team about our rates.

Developed specifically for landfill, remediation and contaminated land investigations, the Heron Leachate+ Level Meter provides reliable leachate level and temperature measurements in demanding field environments. Its shielded plunger detection system helps identify leachate levels while reducing false readings caused by foam and debris. The durable Kynar-jacketed, steel-core measuring tape is designed for enhanced durability and temperature profiling in challenging conditions, with temperature capabilities up to 135°C.

With a 200 m measurement range, this specialist meter is suited to deep monitoring wells and routine landfill monitoring programmes. The modular design supports straightforward cleaning and field servicing, while the integrated temperature sensor provides additional information to support leachate quality management and environmental investigations.

**Technical specifications**

- Measurement range: 200 m
- Measuring tape: Kynar-jacketed, steel-core tape
- Leachate detection: Shielded plunger system
- Temperature measurement: Integrated temperature sensor
- Temperature profiling: Up to 135°C (266°F)
- Probe head outside diameter: 1 inch (24.5 mm)
- Probe head length: 8.4 inches (213 mm)
- Tape width and thickness: 3/8 inch (9.5 mm) wide and approx. 0.04 inches (1 mm) thick
- Reel dimensions: 20" H x 16.5" W x 10.9" D (50.5 cm x 42 cm x 27.6 cm)
- Weight: Approximately 14.5 to 15.5 lbs (6.5 to 7 kg)

# GROUNDWATER INVESTIGATION KITS

*Enquire with our team about our rates.

Three essential tools. One convenient

## SHALLOW TO MID-DEPTH GROUNDWATER INVESTIGATION KIT

Simplify groundwater investigations in shallow to mid-depth wells with our Shallow to Mid-Depth Groundwater Investigation Kit, combining a peristaltic pump, water level meter, and YSI water quality meter in one cost-effective package.

Designed to support groundwater sampling and monitoring, this kit brings together the equipment needed to measure groundwater levels, collect groundwater samples, and monitor water quality.

**Kit Includes:**

- Peristaltic Pump
- Water Level Meter (WLM)
- YSI Water Quality Meter

**Save on the set cost.**

Contact our team for package rates and availability.

## DEEP GROUNDWATER INVESTIGATION KIT

Simplify groundwater sampling in deeper wells with our Deep Well Monitoring Kit, combining a bladder pump, water level meter, and YSI water quality meter in one cost-effective package.

Designed to support groundwater investigations, this kit brings together the essential equipment needed to measure groundwater levels, collect groundwater samples, and monitor water quality.

**Kit Includes:**

- Bladder Pump
- Water Level Meter (WLM)
- YSI Water Quality Meter

**Save on the set cost.**

Contact our team for package rates and availability.

## LANDFILL SITE MONITORING KIT

*Enquire with our team about our rates.

Three essential tools. One convenient package.

Simplify your landfill monitoring with our Landfill Site Monitoring Kit, combining the GA5000 gas analyser, YSI water quality meter and 200 m Leachate Meter in one cost-effective package.

Designed to support comprehensive landfill investigations, this kit provides the equipment needed to assess landfill gas, monitor water quality, and measure leachate levels, helping you build a clearer understanding of site conditions.

**Kit Includes:**

- GA5000 Landfill Gas Analyser
- YSI Water Quality Meter
- 200 m Leachate Meter

**Save on the set cost.**

Contact our team for package rates and availability.

## Geotechnical Core Storage and Services

*Enquire with our team about our rates.

We provide secure geotechnical core and soil storage solutions, holding samples until required for testing or project use.

In collaboration with our in-house laboratory team, we can also facilitate a range of geotechnical testing services.

Once storage and testing are completed, we offer safe and efficient disposal of the samples either as part of the full service or as a standalone offer.

## Ecology Cleaning Services

*Enquire with our team about our rates.

We provide full cleaning and decontamination services for ecological field gear, including nets, waders, and related equipment.

Each item is thoroughly washed and sanitized, then froze for a 48-hour period to ensure compliance with biosecurity and eliminating cross contamination standards. After drying, the equipment is carefully prepared and returned, ready for reuse in the field.

## Forklift Extensions

*Enquire with our team about our rates.

Reliable and heavy-duty, this sturdy pair of 2.1m long fork extensions is ideal for safely handling longer or oversized loads with improved stability. Constructed for strength and durability, they're quick to fit, secure in place, and perfect for extending the versatility of your forklift without compromising control. Suitable for forks up to 130mm wide.

## Water Sampling

| Filters |
|---|
| AquaPore Biodegradable Filers |
| 0.45 micron x 500 cm2 |
| 0.45 micron x 800 cm2 |
| • Complies with ANZECC recommendations<br>• Biodegradable<br>• Groundwater preparation for dissolved metal analysis<br>• Filtering turbid groundwater |

| Hydrasleeve |
|---|
| Hydrasleeve 1.1L |
| Hydrasleeve Spring Clip |
| Hydrasleeve Weight |

| Tubing | |
|---|---|
| Light-Density Polyethylene (LDPE) | |
| 1/ 4" | 100m, 50m, 20, 10m rolls |
| 3/8" | 100m, 50m, 20, 10m rolls |
| 1/ 2" | 100m, 50m, 20, 10m rolls |
| 1/ 4" & 3/8" Bonded | 100m rolls only |
| Medium-Density Polyethylene (MDPE) - 25m rolls | |
| 1" | |
| Silicone for Peristaltic Pumps | |
| 3/8" | per half metre |
| 5/8" | per half metre |

## Water Sampling

| Waterra Footvalves | |
|---|---|
| Standard Flow | |
| D16 | 5/8 tubing required |
| D25 | 5/8 tubing required |
| D25 Surgeblock | |
| High Flow | |
| D32 | 1" tubing required |
| SS32 (Stainless Steel) | 1" tubing required |

| Disposable Bailers | |
|---|---|
| Clear PVC Bailer 1.5" (38mm) | Box of 24 |
| Clear PVC Bailer 0.7" (17mm) | Box of 24 |

## Cleaning and Decontamination Solutions

| |
|---|
| Liquinox - 3.8L |
| DECON90 - 5L |

# CONSUMABLES cont...

## Gas Detection

| Water-Trap Filters |
|---|
| MiniRAE 3000 |
| MultiRAE Lite |
| GA5000 |
| EAGLE 2 Hydrophobic Disc |
| EAGLE 2 Particle Filter |
| GX-2012 Hydrophobic Disc |

| Well Caps |
|---|
| Gas Tricap w/ quick connect fitting (male) – 50mm |
| Quick release fitting (female) for Gas Tricap |
| Lockable Tricap – 50mm |

| Calibration Gas |
|---|
| 4-Gas Mix, 34L<br>(100ppm CO, 25ppm H2S, 2.5% CH4, 18.0% O2) – for LEL meters |
| Isobutylene Gas, 103L (100ppm Isobutylene, C4H8) – for PIDs |
| 2-Gas Mix, 103L<br>(40% CO2, 60% CH4)– for GA/GEM 5000 Landfill Gas Analysers |

## Other Consumables cont...

| |
|---|
| Nuclear Density Meter (NDM) Cleaning Kit |

# FREQUENTLY ASKED QUESTIONS

## I initially needed the gear for 2 days but now I need it for a month, do you have long-term hire rates?

Yes, monthly, 2-weekly, weekly and daily rates are available. The hire period is automatically calculated and the appropriate rate is selected by our software. The minimum hire period is 1 day. To clarify: one week consists of 5 working days, a fortnight consists of 2 working weeks, a month consists of 4 working weeks.

We may also be able to organise a fixed rate agreement for long-term hires - get in touch to discuss this with us.

## I want to hire equipment from you, how do I check availability?

You can either submit an enquiry via our website or you can call us to do this.

Alternatively, you can email hire@geotechnics.co.nz with the date range you had in mind and what equipment you need and one of our friendly team members will get in touch to book it in.

## Is all your hire equipment listed on your website?

We try to update our website as much as possible with the latest information. If you're after something specific and can't see it on our website/in our catalogue, get in touch as we are always looking to expand our equipment offerings – or we may already have it and it just hasn't been uploaded yet!

## Can I have the equipment delivered and how much is freight?

Yes, we can deliver nationwide! The delivery timeframe is usually overnight unless otherwise stated. In Auckland and Christchurch, we have the option to utilise same-day couriers for time-sensitive situations.

Cost of freight is determined by the weight and size of the package. The below prices are based on the maximum size and weight per item.

When we dispatch equipment, we include return tickets for sending the items back to us. If you prefer to use your own freight forwarder, please let us know in advance to avoid extra charges. Please note that our hire charges are based on our tracking information, starting from delivery and ending at collection. If our tracking is not used, hire charges will continue until the equipment is received back at our premises.

# FREQUENTLY ASKED QUESTIONS

## The gear is taking a few days to get to me and I only need it for 1 day, will I be charged for the days in transit?

No, we will only begin hire charges from the day you receive the equipment until the day you stop using it. This is based on the assumption that the equipment will be delivered/collected on the morning of the following day.

To avoid confusion, please drop us a short email when you have finished using the equipment and ensure it is dispatched the following morning.

On the odd occasion where we have requested you to return the equipment immediately after your hire period ends, we will require the equipment to be dispatched as soon as possible. If any issues arise, please get in touch with us as early as possible so that we can make other arrangements with our other customers.

## Can I pay with my credit card?

Certainly. We accept all major credit cards except American Express. If you have an account with us, you're also able to pay on statement.

However, unless you have an account set up, we require payment upfront. We prefer to secure credit card details as we can process this at the end of the hire after the equipment is returned. Proof of bank transfer is also welcomed.

GEOTECHNICS

www.geotechnics.co.nz