

ALLARA RENTAL & SALES CATALOGUE

OCCUPATIONAL HEALTH,
SAFETY & ENVIRONMENTAL
MONITORING EQUIPMENT



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Company History

Allara Instrument Hire was formed in 1996 to service the Occupational Health, Safety and Environment Market with top quality, portable equipment. It is the company's aim to provide a level of service that is second to none in the industry.

Benefits of renting with Allara

- > No large up front capital outlay, renting is a tax deductible operating expense.
- > On-site training in metropolitan areas for your staff at no additional charge.
- > Complete instrument management program available for long term contract hires.
- > All instruments are calibrated and serviced before being dispatched.
- > Allara will set the instrument up to your specific project needs prior to being dispatched.

Our Mission

To work in partnership with our customers in providing environmental protection solutions through quality hire and service.



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Product Icons

Icons have been added to this catalogue to provide a quick reference to assist you in instrument selection.



DATALOGGING

The datalogging icon is displayed to indicate instruments that datalog.



DOCKING

The docking icon is displayed where the instrument is docking station compatible.



CONSUMABLES

The consumables icon is displayed where consumables may be purchased with your rental.



KIT

The kit icon is displayed where the equipment may be rented in a kit at a reduced rate from renting each item separately.



GAS

The gas icon is displayed where gas may be rented or purchased with the rental.



BULK

The bulk icon is displayed where reduced rates apply for bulk quantities.

02

Gas Detection Single & Multi Gas Detectors

Applications: Single Gas Detectors

- Waste water treatment plants.
- Oil refineries.
- Drilling rigs.
- Area shutdowns.

See the Gas Detector Comparison Table on PAGE 04 to pick the correct instrument for your requirements.

1 Gas Badge Pro

- Pocket sized.
- Go/No Go display mode.
- Datalogging and event logging facilities.
- STEL, TWA and Peak readings.
- Real-time gas readings in PPM.
- Large range of sensors available.
- Audible, visual and vibrating alarm.
- 1600 hours operation.
- Infrared interface.
- Docking station compatible.



Applications: Multi Gas Detectors

- Confined space entry.
- Waste water treatment plants.
- Landfill operations.
- Refineries and petrochemical plants, including off-shore drilling and plant shutdowns.
- Coal mines.
- Pulp and paper industry.
- Tunnels.
- Sewers and manholes.
- Steel mills.
- Power plants.
- Cruise ships.
- Trenches, silos and rail cars.

Accessories

- iSP sampling pump for iTX.
- SP40 sampling pump for M40.
- SP402 sampling pump for TMX.
- Sampling probes.
- Regulators for gas cylinders.
- Calibration hoods and tubing.
- Datalogging software and download kit.

2 M40

- Fixed sensor confined space monitor measuring O₂, LEL, H₂S and CO.
- Peak, TWA and STEL modes.
- Compatible with MCal Calibration Station.
- Visual, audible and vibrating alarms.
- Compact and lightweight.
- 18 hours run-time with Li-Ion battery.



3 iTX

- Monitors 1-6 gases simultaneously.
- Peak, STEL and TWA modes.
- DS2 docking station compatible.
- Up to 300 hours of datalogging storage at 1 second intervals.
- Visual and audible alarms.
- Stainless steel casing.
- Displays combustible gases in PPM or LEL.
- 24 hours run-time with Li-Ion battery.



4 QRAE+

- Monitors 1-4 gases simultaneously.
- Peak, STEL and TWA modes.
- Visual and audible alarms.
- 16,000 datalogging points for storage.
- 20 hours run-time with Li-Ion battery.



03

5 Mx6 – DS-2 Dockable Personal Multi-Gas Monitor

- Unprecedented capability and versatility.
- Continuously and simultaneously monitors 1-6 gases with a choice of 25 'smart' sensors, including PID and NDIR.
- Menu-driven operating system and real-time graphic display.
- Up to 36 hours run-time and 1 year datalogging capacity.
- Audible, visual and vibrating alarms.
- Certified for Class 1 Zone 0.



Gas Detection Docking Stations

1 DS2 Docking Station for iTX, Mx6 and GasBadge Pro

- Automated bump-testing, calibration, record keeping, battery charging and instrument diagnostics.
- Ethernet and/or wireless connectivity to link to up to 100 remote stand-alone instrument docking stations.



- Graphical DSSAC user interface enables administrator to track instruments, print reports, set events and change parameters in any location.



Gas Detection Portable Area Monitors

Applications: BM25

- Gas watch guards.
- Team protection.
- Area surveillance.
- Power plants.
- Refineries.
- Waste water treatment plants.
- Shutdown applications.

1 BM25 – Transportable Multi-Gas Area Monitor

- 1-5 gases simultaneously with interchangeable 'smart' sensors.
- 100+ hours run-time.
- Datalogging.
- High awareness audible and visual alarms.
- Certified for Class 1 Zone 0.



04

Gas Detection Accessories & Instrument Management

1

iSP Motorised Sampling Pump – for iTX Multi-Gas Monitor

- Powered from the iTX Monitor.
- Remote sampling up to 30 metres (fitted with 3 metres of tubing as standard).
- Can be used with a variety of probes.



2

Confined Space Kits

- Everything required for confined space evaluation and monitoring in a rugged carrying case.
- Includes monitor, charger, pump, tubing, filters, gas and calibration accessories.



3

Gas

- A complete range of calibration gas is available to purchase or rent with selected instruments.



4

Computers

- Laptop computers are available to rent with a DS2 docking station. Computers come complete with cat 5 cables, ethernet switches and software.



5

Download Equipment

- On request, all equipment with datalogging facilities will be dispatched with applicable software and cables.



6

6 Way Multichargers

- Multichargers provide a convenient way to manage instruments. Multichargers are supplied at no additional cost to your rental.



Summary of gas detectors and sensors available

	PID	O ₂	LEL	H ₂ S	CO	SO ₂	NH ₃	NO	NO ₂	HCN	Cl ₂	PH ₃	INSTRUMENT RUN-TIME	PUMP RUN-TIME
MX6	•	•	•	•	•	•	•	•	•	•	•	•	24HRS	15HRS
ITX	–	•	•	•	•	•	•	•	•	•	•	–	24HRS	15HRS
GAS BADGE	–	•	–	•	•	•	•	–	•	•	•	•	10HRS	N/A
M40	–	•	•	•	•	–	–	–	–	–	–	–	18HRS	12HRS
QRAE	–	•	•	•	•	•	–	•	•	–	•	–	18HRS	18HRS

Gas not listed? Speak to us about finding you a solution.

Gas Detection Shutdown Solutions



Allara specialise in providing instrument management solutions. As shutdown specialists we have extensive experience with primary and subcontractors in mining, industrial and petrochemical. Allara will design and provide you with a system tailored to project requirements.

We don't just supply gas detectors, our systems include everything needed for a successful shut down including lap top computers, ethernet hubs, cat 5 cable, gas, docking stations, pumps, probes, software, tubes and filters. We even provide regular on-site visits to ensure everything runs smoothly.

05

Gas Detection Landfill Analysers

1

GFM 410

At almost half the size of other landfill gas analysers on the market, and weighing only 750g, the GFM410 is an ideal portable instrument for monitoring and analysing gas content of landfill, biogas and contaminated land sites. It measures methane (0–100%) and carbon dioxide (0–100%) using infrared sensors as well as oxygen (0–25%) and hydrogen sulphide (0–1500ppm) using electrochemical sensors.



2

GFM 430

A truly universal landfill gas analyser, all the features of the GFM 410 plus it measures gas concentrations, pressures, flows and temperatures. It can be used to equally great effect at peripheral boreholes and gas extraction wells.



3

ATX 620

- Simultaneous monitoring using infrared (CH₄ or CO₂), catalytic (combustible gases) and electrochemical (O₂ & toxic) sensors.
- Peak, STEL and TWA modes.
- Leak check operating mode.
- Visual and audible alarms.
- Internal sampling pump.
- 13 hours run-time with Ni-cad battery.



4

VRAE

- Monitors 1–5 gases simultaneously.
- Peak, STEL and TWA modes.
- 53 hours of datalogging storage.
- Visual and audible alarms.
- Dual range 0–100% LEL and 0–100% volume.
- 10 hours run-time with NiMH battery.



Applications: Landfill Analysers

- Landfill operations.
- Waste water treatment plants.
- Toxic gas surveys.
- Refineries and petrochemical plants.
- Electric and gas utilities.
- Breweries.
- Marine and off-shore oil wells.
- Confined space entry.
- Food processing.

Landfill Gas Analysers Chart

FEATURES

- INFRARED CH₄ ANALYSIS 0-100%
- LEL 0-100%
- INFRARED CO₂ ANALYSIS 0-100%
- ELECTROCHEMICAL O₂ ANALYSIS
- ELECTROCHEMICAL H₂S ANALYSIS
- ELECTROCHEMICAL CO ANALYSIS
- ELECTROCHEMICAL SO₂ ANALYSIS
- ELECTROCHEMICAL NO ANALYSIS
- ELECTROCHEMICAL NO₂ ANALYSIS
- ELECTROCHEMICAL CL₂ ANALYSIS

BOREHOLE (LOW) FLOW MEASUREMENT

- FLOW RANGE -60 TO +100 L/HOUR
- FLOW RESOLUTION 0.1 L/HOUR
- BOREHOLE PRESSURE +1000/-1000 PA (TYPICAL)

	GFM410	GFM430	ATX620	VRAE
INFRARED CH ₄ ANALYSIS 0-100%	•	•	•	•
LEL 0-100%	•	•	•	•
INFRARED CO ₂ ANALYSIS 0-100%	•	•	•	–
ELECTROCHEMICAL O ₂ ANALYSIS	•	•	•	•
ELECTROCHEMICAL H ₂ S ANALYSIS	•	•	•	•
ELECTROCHEMICAL CO ANALYSIS	•	•	•	•
ELECTROCHEMICAL SO ₂ ANALYSIS	–	–	–	•
ELECTROCHEMICAL NO ANALYSIS	–	–	–	•
ELECTROCHEMICAL NO ₂ ANALYSIS	–	–	–	•
ELECTROCHEMICAL CL ₂ ANALYSIS	–	–	–	•
FLOW RANGE -60 TO +100 L/HOUR	–	•	–	–
FLOW RESOLUTION 0.1 L/HOUR	–	•	–	–
BOREHOLE PRESSURE +1000/-1000 PA (TYPICAL)	–	•	–	–

* ATX 620 HAS CAPACITY FOR ONE INFRARED SENSOR ONLY – CHOOSE EITHER CH₄ OR CO₂.

* VRAE HAS CAPACITY FOR FIVE SENSORS TOTAL. O₂, LEL/CH₄ (COMBINATION) PLUS THREE OTHER ELECTROCHEMICAL SENSORS.

06

Gas Detection Photoionisation Detectors

1 MiniRAE 3000

The new MiniRAE 3000 is the latest addition to our stable of PID's. It had all the features of the MiniRAE 2000 updated with a new design and extra features. Including a range of 0-150,000ppm, a 3 second response time and real-time wireless data transmission with the built-in RF modem or Bluetooth.

These instruments are excellent in headspace and field VOC monitoring. They are also excellent for use in industrial hygiene and hazmat applications. The MiniRAE 3000 will datalog up to 6 months at one minute intervals and have humidity compensation built in.



2 MiniRAE 2000

The rugged MiniRAE 2000 is one of the smallest pumped handheld Volatile Organic Compound (VOC) monitors on the market. Its Photoionisation Detector's (PID) extended range of 0-10,000ppm makes it an ideal instrument for applications from environmental site surveying to HazMat/Homeland Security.



3 Photovac 2020 Pro

- 10.6eV lamp.
- Humidity compensated for reliable results.
- Visual and audible alarms.
- 0.1-2000ppm operating range. (100-20,000ppm with dilution probe)
- Built-in sample draw pump.
- Non-logging mode, tag or interval modes available.
- 15,000 data points for datalogging.



4 ToxiRAE

- Personal PID monitor.
- 10.6eV lamp.
- Visual and audible alarms.
- 0-2000ppm operating range.
- Built-in sample draw pump.
- 4000 data points for datalogging.
- Peak, STEL and TWA modes.
- 12 hours run-time with Ni-cad battery.



Gas Detector Tube System

Applications: Kitagawa Pump

- Environmental protection in workshops, buildings and offices.
- Construction sites.
- Manufacturing plants.
- Safe clearance after chemical alert.

1 Kitagawa Pump

- Quantitative 'spot' measurements.
- Provides immediate results.
- Concentration displayed by colour change on detector tube.
- Simple, fast and low cost way of receiving results.
- Detector tubes purchased separately.



07

Air Sampling SKC Pumps & Kits

1 XR5000

- Direct flow control with internal flow and temperature sensors.
- Extended run-time (40 hours at 2L/min) with Li-Ion battery.
- Programmable via keypad.
- LCD shows elapsed time and accumulated run-time.



Accessories: SKC Pumps & Kits

- Cyclones for collecting respirable dust.
- Filters for collecting total dust, asbestos or chemical hazards.
- IOM samplers for collecting inhalable dust.
- Tedlar bag samples for collecting airborne chemical hazards.
- Impingers for collecting reactive chemicals into liquids.
- Sorbent and long duration detector tubes for collecting most hazardous gases and vapours from the air.
- All SKC pump rentals come complete with tygon tube ready for sampling.
- Ask your local Allara representative about presetting your pump flows.
- For step by step sampling guides visit our website www.allara.com.au.

2 PCXR Pumps

- Operating range 5mL/min-5L/min.
- Ideal for both on worker and fenceline applications.
- Programmable for delayed start time, intermittent breaks, extended sampling for up to 7 days, timed shutdown and repeat samples.
- Hold button during breaks.
- Automatic fault shutdown with elapsed sampling time recorded.
- LCD screen shows run-time, battery status and flow fault.



3 Aircheck 2000

- Operating range 5mL/min-3250mL/min.
- Lightweight and portable.
- Contains internal flow sensor for maintained flow rate.
- Programmable for delayed start and timed shutdown as well as sequential sampling.
- LCD screen shows flow rate, air volume, run-time, temperature, atmospheric pressure, battery status, time and flow fault.
- Automatic fault shutdown with elapsed sampling time recorded.



4 Aircheck 52

- Operating range 5mL/min-3000mL/min.
- Lightweight and portable.
- Simple to use - 1 button start & stop.
- Display shows run-time, battery condition and flow fault without losing sample run-time.



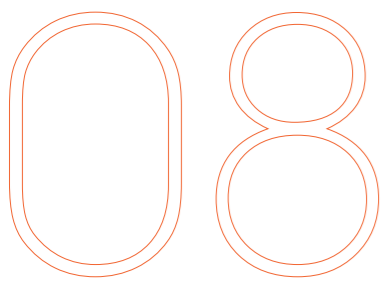
5 Pocket Pump

- Operating range 20mL/min-225mL/min.
- Easily fits into shirt pocket.
- Programmable for delayed, intermittent or repeat sampling or for multiple sampling schedules.
- LCD screen shows flow rate, air volume, run-time, media back pressure and incoming air temperature.
- 8 hours run-time with Ni-cad battery.



	FLOW RANGES (ML/MIN)	PUMP RUN-TIMES (HOURS)	WEIGHT (GRAMS)
XR5000	5-5000*	20	454
PCXR	5-5000*	8	964
AIRCHECK 2000	5-3250*	8	624
AIRCHECK 52	5-3000*	8	567
POCKET PUMP	20-225	8	142

*5-500mL requires low flow adapter



Air Sampling Kits

Everything required for sampling and monitoring in a rugged carrying case.

Includes 5 pumps, charger, tubing, calibrator & calibration accessories. Choose from IOM, cyclones or low flow tube holders to complete your kit.



Air Sampling Pump Calibrators

Applications: Pump Calibrators

- Commonly hired to determine the flow rate of sampling pumps.
- Also used to measure the flow rate of sampling trains.
- Can be used to calibrate rotameters or virtually any device that involves air flow through tubing.

- 1 Defender 510**
- Instant readout of flow rate with $\pm 0.5\%$ of reading accuracy.
 - Automatic calibration of Airchek 2000 with CalChek.
 - Integrated interface software saves calibration data as text file.



- 2 DryCal DC Lite**
- Instant readout of volumetric flow rate with $\pm 1\%$ accuracy.
 - 100mL/min-7L/min model.
 - Uses near frictionless piston technology.
 - Hands-free auto mode.
 - 5 minute auto shut-off.
 - Built-in leak test.
 - 6-8 hours run-time with lead acid battery.



Air Sampling Accessories

Allara has access to the complete range of SKC accessories and sampling consumables. If you need any assistance in product selection and application contact your local Allara representative.

Accessories

1

Cassette /Cyclone Holders

- SKC Filter Cassette Holder for 25/37mm cassettes.
- Accommodates two or three-part 37mm cassette, with or without cyclone, or 25mm cassette with cowl.



2

Low Flow Tube Holders

- Assure a positive seal between the sample pump and sample tube.
- Comes with clip and protective holder to attach to worker for accurate results.



3

IOM Sampler

- Measures inhalable dust.
- Filter cassettes available in 25mm.
- Cassette system eliminates filter handling.
- Conforms to Australian Standards for inhalable particulates.



4

Conductive Plastic Cyclone

- Measures respirable dust.
- Constructed of conductive plastic that eliminates the static problem allowing for accurate results.
- Filter cassettes available in 25mm or 37mm sizes.



Consumables

5

Preloaded Filters

- Asbestos Sampling Cassettes.
- 37mm Filters in Preloaded Cassettes.
- Coated Filters.
- Endotoxin-free Filters.
- Matched Weight Filters.
- Preweighed Filters.
- Presterilised Filters.



6

Sorbent Tubes

- Using advanced sorbent technology and designed specifically for OSHA, NIOSH, HSE and USEPA methods.
- Batch consistency and strict quality control ensure fewer description efficiency determinations.
- Back-up sections detect break-through and provide an indication of sample validity.
- A wide selection of tubes is available for sampling hundreds of chemicals.



7

Tygon Tube

- Short lengths of Tygon tube is supplied with your rental free of charge. For large quantities, Tygon is available to purchase in rolls of 15 meters.



8

Gas Sample Bags

- Available in a variety of materials (Tedlar, Teflon, FlexFoil), septum/valve configurations and sizes.
- Strong, evenly sealed seams; ultra-clean materials; leak tested.



10

Air Sampling Indoor Air Monitoring

Applications: Air Flow Monitors

- Indoor air quality tests.
- Heating and cooling coil analysis.
- Fume hood face velocity tests.
- Filter face velocity tests.
- Diffuser and grille measurements.



1 Hot Wire Anemometer

The Model 8345 has a digital display, a velocity range from 0–6,000ft/min (0–30m/s), and a temperature range of 0°–200°F (-18°–93°C).

It will display volumetric flow rates for measurements in ducts and offer averaging capabilities up to 255 values in both velocity and temperature measurements.



2 Rotating Vane Anemometer TSI & Alnor Range

- Accurately measures air velocity, temperature, calculates flow rate and determines average, minimum and maximum readings.
- Over 2800 logging samples with time and date stamp.
- Operating range 0–25m/s and 0–80°C with a resolution of 0.1m/s and 0.1°C using a 4" diameter rotating vane head.
- 24 hours run-time with 4xAA alkaline batteries.



Applications: Qtrak

Allara's extensive fleet of Qtraks ensures that even your largest projects can be filled with one phone call.

3 QTrak Plus IAQ Monitor

- Monitors available 8551, 8554 & 7565.
- Measures CO₂, temperature, humidity, and CO.
- Calculates dew point, wet bulb and percent outside air.
- Displays up to five measurements simultaneously.
- One instrument with multiple plug-in probe options.
- User-selectable logging intervals and start/stop times.
- Store up to 38.9 days of data collected at one-minute log intervals.
- TrakPro™ software provided for datalogging, analysis and documenting results.
- Perform single-point tests for quick building surveys.



Need technical support?
Speak to your local Allara representative about technical setup and our downloading service.

11

Dust Monitoring Real-time Dust Monitors & High Volume Sampling

1 High Volume Sampler

- Fully programmable up to 7 days.
- Maintains constant air flow while using either TSP, PM10 or PM2.5 head.
- Supplied with filter support and transport cover to alleviate contamination of the sample.
- Quiet in operation.
- True mass flow sensor guarantees flow control and accurate results.

Applications: High Volume Sampler

- Ambient samplings of different parameters such as dust, asbestos fibres and gases.
- Quarries.



2 Dust Trak & Dust Trak 2 Aerosol Monitors

- Real-time area dust monitor using the light scattering principle.
- Provides instantaneous readout of dust concentrations.
- PM10, PM2.5, PM1.0 or respirable particle size ranges.
- Ideal for quick spot checks or long term advanced logging modes.
- Contains port for external alarm to be attached.
- 31,000 data points for storage (21 days at 1 minute intervals).
- 16 hours run-time with 4xC size alkaline batteries.
- Dust Trak is capable of running on mains power.



3 Dust Trak Environmental Enclosure

- Provides additional security and protection of the Dust Trak.
- Sampling inlet is designed to sample efficiently in a broad range of wind conditions.
- The lead acid batteries included provide 24 hours run-time.



4 EVM-7 Environmental Monitor

The Quest EVM-7 has the unique capability to simultaneously measure real-time direct reading of particulate concentrations for dust with TSP, PM2.5, PM4 & PM10. It provides comprehensive indoor air quality analysis with its ability to simultaneously monitor and log one toxic gas, carbon dioxide, relative humidity and temperature. It combines this with a PID to measure volatile organic compounds (VOCs).

Simultaneously Measure Particulate and Gas Concentrations

- Reduces the need for multiple instruments.
- Lowers the cost of ownership.

Dial-in Rotary Impactor

- Twist and click selection of particulate settings: PM2.5, PM4, PM10 or TSP.

90° Light Scattering Photometer

- Mass concentration engine offers real-time measurement of particulates.

Built in Sampling Pump for Gravimetric Analysis

- Allows user to insert a 37mm filter cassette to capture particulates for laboratory testing.



12

Sound & Noise Noise Dosimeters

As the market leader in noise dosimeters, Quest designed the most innovative cable-free dosimeter on the market. No longer is there a concern with cables interfering with the task at hand and you won't even know you have it on, weighing only 69g.

The thin, contoured shoulder mount conforms to the worker's body for superior comfort. The Edge features up to two dosimeters allowing user selectable options and datalogging with time history values. The intuitive buttons on the instrument allow you to easily run, navigate and review data.

1 The Edge

- Cable free design.
- Thin, contoured shoulder mount.
- Multi-parameter LCD.
- Datalogging & time history.
- Rechargeable lithium polymer battery.
- Docking station for recharging/data downloading to PC.
- Compatible with QuestSuite Professional II Software.
- Intrinsically safe to IEC Exia I/IIC T4 IP65.



Applications: Noise Dosimeters

- Industrial noise control.
- Community noise measurements.
- Australian state and territory compliant.
- Personal noise verification.
- Hearing conservation compliance.
- Law enforcement agencies.
- Work site assessments.
- Military applications.
- Traffic studies.

2 Quest Noise Pro DLX

- Class/Type 2 accuracy.
- Measurement range of 40–110dB RMS, 70–140dB RMS and 115–143dB Peak.
- Frequency rating RMS A or C, Peak A, C or Z.
- Displays SPL, Lav/Leq, peak, fast/slow min, fast/slow Max, TWA, projected TWA, dose, projected dose, SEL, exposure and run-time.
- Programmable start/stop.
- Autoconfiguration to standards.
- High speed infrared communications.
- Minimum 40 hours time history capacity.
- Programmable twice daily or up to 4 one-time scheduled runs.
- Infrared retrieval of data from other DLX instruments.
- 70 hours run-time on 2xAA alkaline batteries.



3 Larson Davis Noise Badge 705

- Compact in size, easily fitting into shirt pocket.
- PC based setup only.
- Dynamic range of 70–140dB.
- Stores Leq, Max and Peak levels between 1–255 intervals.
- User programmable start/stop times.
- Slow or fast RMS detection using A or C weighting.
- Calculation of noise exposure in both percentage dose and Pa2/hr units using a variety of exchange rates, threshold & criteria values.
- 20 hour run-time with 1xAAA alkaline battery.



4 Larson Davis Spark 703+

- Lightweight with slim ergonomic design.
- PC based setup only.
- Faceless instrument with indicators for run status and battery life.
- Programmable start/stop times.
- Calculation of noise exposure in % dose, projected dose, SE and Pasques units using a variety of exchange rates, threshold and criteria values.
- 100 hours run-time with 2xAA alkaline battery.



13

5 Dosimeter Kit

- Everything required for sampling and monitoring in a rugged carrying case.
- Includes 5 dosimeters, chargers, software & download cables, QC-10 calibrator & calibration accessories.



Noise Dosimeter Comparison Table

FEATURES	EDGE DOSIMETER	NOISEPRO DLX	NOISE BADGE 705	SPARK 703
ACCURACY	2	2	2	2
WEIGHTINGS	A OR C	A, C OR Z	A, C OR UNWEIGHTED	A OR C
MEASUREMENT RANGE (dB)	70–140	40–110 70–140	70–140	40–143
SPL	YES	YES	YES	YES
PEAK LEVEL	YES	YES	YES	YES
MAX LEVEL	YES	YES	YES	YES
MIN LEVEL	YES	YES	YES	YES
LAV/LEQ	YES	YES	YES	YES
DATALOGGING	YES	YES	YES	YES
C-A	YES	YES	YES	YES
PROGRAMMABLE	YES	YES	YES	YES
RESPONSE TIME	SLOW OR FAST	SLOW, FAST OR IMPULSE	SLOW OR FAST	SLOW OR FAST

14

Sound & Noise Sound Level Meters

1

Use high speed USB or removable SD memory to transfer data from your sound level meter to your computer for further analysis.



The Sound Pro SE/DL Series includes Advanced Hand Held Sound Level Meters and Real-time Frequency Analysers. When used with QuestSuite Professional II applications software, you can simply and reliably perform your advanced noise analyses.

Sound Pro SP DL1

- Type 1 precision.
- Two 'virtual' sound level meters running simultaneously.
- Concurrent A-weighting and C-weighted measurements.
- Programmable & level triggered start /stop.
- A,C and Z (flat) Frequency weighting.
- Fast, slow and IEC impulse time response.
- Selectable thresholds 10-140dB 3,4,5,6dB exchange rates.
- SD memory card.
- USB communications port and serial RS-232 output.
- Time history datalogging with 1 second to 60 minute intervals.
- Noise dose calculation /dosimetry function.



Sound Pro SP DL1 1/3 Octave

The SP DL1 1/3 is the top end of portable Type 1 SLM's. It has all the features of the DL 1 plus and more. Featuring frequency analysis, 1/3 octave-band analysis measurements in filter band and broadband values for both integrating sound level meters 1 & 2. As standard on the complete Quest range you can view your results on-screen or datalog and download.



Applications: Sound Level Meter Type 2

- Occupational noise measurement.
- Community noise assessments.
- Appliance safety testing.
- Machine performance analysis.
- Research and development.
- Maintenance inspection and troubleshooting.
- Noise ordinance enforcement.
- Environmental Impact Statements.
- Noise control device evaluations.
- Product testing.
- Quality control.

Applications: Sound Level Meter Type 1

- All applications as listed above as well as Frequency analysis of sound sources.
- Engineering control studies.
- Audiometer analysis and calibration.
- Hearing protection and noise control device evaluations.

2

Quest 2400 Type 2

- Ideal for spot checks and basic noise surveys.
- Easy to operate.
- Selectable dB range 30-100dB and 70-140dB.
- A or C frequency options.
- Run, peak or hold modes.
- Fast or slow response.
- 25 hours operating time with 1x9V alkaline battery.



3

QC-10 and QC-20 Calibrators

- Provide quick precise field calibration.
- QC-10 calibrator is a general purpose calibrator for use with noise dosimeters and sound level meter type 2.
- Generates constant SPL of 114dB at a fixed frequency of 1000Hz.
- QC-20 calibrator is used with the type 1 sound level meter.
- Generates 4 different outputs using 94dB or 114dB SPL and 250 or 1000Hz frequencies.



15

Sound Level Meter Comparison Table

	Q2400 (TYPE 2)	SOUND PRO SP DL (TYPE 1)	Q1800 (TYPE 1) Q1900 (TYPE 1)
ACCURACY	2	1	1
WEIGHTINGS	A or C	A, C, Z and F	A or C
MEASUREMENT RANGE (dB)	30-140dBA 40-140dBC	0-140 dB	20-140
SPL	YES	YES	YES
PEAK LEVEL	YES	YES	YES
MAX LEVEL	YES	YES	YES
MIN LEVEL	No	YES	YES
LAV/LEQ	No	YES	YES
DATALOGGING	No	YES	No
C - A	No	No	No
PROGRAMMABLE	No	YES	YES
RESPONSE TIME	SLOW OR FAST	SLOW OR FAST	SLOW, FAST OR IMPULSE

Sound & Noise Environmental Noise Logger

Applications: Noise Logger

- Noise Impact studies.
- ELS.
- Industrial hearing conservation strategies.

1

EL-316 Noise Logger

- Type 1 environmental noise logger.
- Completely self-contained, weatherproof and portable unit.
- Capable of monitoring and recording noise levels continuously for up to 3 weeks.
- A or C weighting.
- Measurement range 30-120dB.
- Continuous 90dB dynamic range.
- Fast response.
- Calculates and stores over 7500 sets of Ln indices.
- PC required to set up system and download data using software provided.
- Programmed timer modes.
- Measures Leq, Lmax, Lmin & Ln indices.
- Operates on a range of batteries depending on use.



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Water Quality Micropurge Systems

1 90FLMV Multiparameter

- Measures pH, redox, conductivity, salinity, dissolved oxygen and temperature simultaneously.
- Full datalogging capabilities with up to 1808 readings.
- Ideal for remote monitoring with its 5m long cables and rugged design.
- Operates on 7.2V rechargeable Ni-Cad battery with a low warning symbol at 5.6V.



2 Flow Cell

This flow cell is specifically built to house the pH, Redox, Conductivity/Salinity/Temp and Dissolved Oxygen probes of the 90FLMV and holds enough sample for five cycles. It contains an overflow outlet and is fitted with a handle which hooks over the side of a bucket for easy handling. A three-way valve directs the sample either into the flow cell or excess samples can be diverted into the overflow bucket.



3 Low Flow Bladder Pump

- QED Sample Pro Bladder Pump.
- No contact between sample and compressed air.
- Disassembles without tools.
- Easy to decontaminate and change disposable bladder.
- Customised to include push connections for tubing will be frequently changed.
- A connection eye is provided on top of the push-in assembly for support cable.
- Hired as part of the micropurge kit.



4 MP10 Controller

- A simple way to control the amount of sample you draw from the well.
- Increase/decrease keys to set the flow rate.
- Adjustable PSI.
- Connect to compressor or gas.
- Interface cable from the MP30 drawdown meter to automatically stop/start and control purge.
- Parameters and settings saving with ID mode.
- Hired as part of the Micropurge Kit.



5 MP30 Drawdown & Water Level Meter

- Designed to help control drawdown during monitoring well purging.
- When connected to the MP10 Controller, pump operation is automatically paused if the selected drawdown limit is reached, then resumes when the well recovers.
- The MP10 can act as a normal water level meter with audible and visual alarms.
- Hire either by itself or as part of the Low Flow/Micropurge Kit.



6 Solinst 12 V Compressor

- The Solinst 12V Compressor is the alternative option to the CO₂ gas bottle.
- Oilless operation.
- Connects to any 12V battery.
- Easy to operate – single on/off function.
- Safety shield between the motor and carry handle to protect both the user and the instrument.
- Hired as part of our Low Flow/Micropurge Kit.
- 12V Batteries available on request.



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7 Compressed Gas System

- The CO₂ cylinder provides hours of sampling power.
- Combines advanced low flow control with the quiet power of a compressed gas source, for the ultimate in portability and ease of use in sampling ground water with bladder pumps.
- Hired with the QED MP15 controller.
- Includes the convenience of a back pack for remote locations.



8 Low Flow Micropurge Kit

Our Low Flow/Micropurge Sampling kit consists of a QED sample Pro Pump, MP10 Controller, Solinst 12V Compressor, wire safety line and flow cell with an option of a TPS water quality meter as well as the QED MP30 Drawdown meter.

Dispense with old technology and ask for the QED MP30 drawdown meter with your next hire. This meter will interface with the MP10 and cuts off the pump when the drawdown is exceeded and will start the pump again when the aquifer is recharged.



No Purge Samplers

1 HydraSleeve No Purge Sampler

The HydraSleeve is used in place of purging and low flow sampling methods in groundwater monitoring wells to obtain representative, real-time, discrete interval sample of all compounds under natural groundwater flow conditions.

The HydraSleeve is effective for sampling slow recharge wells, for monitoring interfaces, and for concentration profiling. Simply lower the empty sampler to the desired interval, let the well return to undisturbed conditions, and pull the sampler through the sample zone.

Unlike any other groundwater sampler, the HydraSleeve instantaneously 'cores' a whole water sample from a defined vertical and horizontal interval. The sample is collected at an in situ pressure without purging and with very little down well disturbance, preventing turbidity, aeration or degassing.



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Water Quality Water & Interface Meters

1 Testwell Water & Interface Meters

The Testwell range of water level meters, interface meters, reels and tapes, are simply the best choice for small diameter and standard oil/water interface meters—with fast clear readings, unbreakable reels and combined with unmatched field performance. Dipmeters (water level indicators) are portable instruments for measuring water levels in wells, standpipes and boreholes.

With several thousand units sold worldwide, Testwell Instruments' dipmeters have a highly respected proven track record. Testwell Instruments has the best range of available probe diameters ranging from 7, 10, 11 and 16mm. Dipmeters are available in lengths from 10 to 900+ metres, with different tape options available for more aggressive environments. A variety of options are available including temperature sensors.

Infrared refraction is used to detect liquids and conductivity is used to detect the water. For heavy viscous oils, detect water sensitivity quickly by increasing the external sensitivity control. For high conductivity water (brine) decreasing the sensitivity control prevents bridging so a moist probe is not detected as being in water.

Water Level Meter Probes

Triple-sealed probes do not need to be accessed by the user. Using 'smart electronics' the probes will ignore any damage to the optical lens and continue to perform. Similar to a water level meter, the units will produce a solid tone in water and an intermittent light and tone indicates product. This system doubles the battery life and provides better overall performance.

Proven & Rugged Optical Sensor

Two separate sensitivity controls for the water sensing and fluid sensing circuits allow the user complete control over the performance of the instrument.

Most Accurate Tapes

Designed specifically for measuring product and organic solvents and four times more accurate than the commonly found flat white TV cable-type tapes. These tapes use twisted stainless steel wires that can untwist and lengthen from the weight (5 lbs.) of the probe and cable. The flat spring steel measuring tape of the Testwell units has a breaking strength of 297 pounds and will not stretch (less than .001 inches) with a 35 pound load. The measuring tape was designed for environmental use and is resistant to all solvents found in the field.



2 Solinst 122 Interface Meter

- Provides accurate measurement of product level and thickness in wells and tanks.
- Determination of both floating no-aqueous liquids (LNAPL) and sinking no-aqueous liquids (DNAPL).
- Designed for rugged field use.
- Stable electronics with automatic circulatory testing.
- Tape uses stranded stainless steel conductors.
- Non-stretch tape does not corrode.
- Tape resists kinking and breaks.
- Sturdy free-standing reel with carrying handle.
- 30, 50 & 80m available.



3 Solinst 101 Water Level Meter

- For measuring the depth of water in wells, boreholes, and standpipes.
- Markings each millimeter.
- Sensitivity adjustable to conductivity.
- Shielded probes to avoid false readings.
- Permanent, heat impregnated markings.
- Non-stretch stainless steel conductors.
- Rugged, corrosion proof components.
- Strong, flexible tape, is easily spliced.
- 50m available.



19

Water Quality Electric, Pneumatic & Peristaltic Pumps

1 Pneumatic Total Fluids Recovery Pump

The Geotech 1.66 Auto-Reclaimer is designed to pump floating hydrocarbons, leachate, and condensate in total fluids applications. Everything needed to operate the system is built into the pump. The design withstands the harshest and most corrosive environments such as refineries, landfills or mines.



2 Geotech's Peristaltic Pump

The Geotech Peristaltic Pumps operate by mechanical peristalsis, so the sample only comes in contact with the tubing. Designed to remove liquid samples from shallow wells and any surface water source by vacuum or pressure pumping via tubes. The pump can be used with mains power or 12V battery. It comes with the easy load pump head system for rapid tube changing in field and the convenience of a purpose built carry case.

- Exceptional field durability.
- Operate from 60 to a maximum of 600RPM.
- Delivery rate of 1.67mL per revolution.
- Pumps from a depth of 8.2m/27ft. at sea level.
- Variable speed control.
- Reversible flow feature for back-flushing.
- Disposable and dedicated tubing means controlled costs and no decontamination issues.



3 Fultz Electrical Submersible Range of Pump Solutions

This electric submersible pump is ideal for providing representative samples due to the low RPM motor and user controlled flow rate. The positive displacement gear pumps are machined from stainless steel and Teflon in the interest of purity.

Water enters the pump through a 50mm mesh screen into a stainless steel cavity. Two Teflon rotors sit in the stainless steel cavity and push the water up the hose in a steady stream. The low RPM motor protects sample integrity. Efficient low maintenance pump is ideal for both remote field work and long term monitoring projects. No need for a 'cool-down' period to prevent the motor from overheating as long as the pump is immersed in water. Designed for 50mm and larger monitoring wells.

Dedicated Fultz Pump System

Installing dedicated groundwater monitoring pumps just became simpler.

You provide us with the hose lengths and we assemble the hose. With integrated power wire to length, install stainless steel quick-connect couplings, watertight electrical plugs and install the well cap on the upper end of the hose (specify 2" or 4" well cap and schedule 40 or 80 well casing). The pump simply snaps onto the well cap and hose assembly and are lowered down onto the well casing.

By dedicating a pump/hose/well cap to each well, field personnel will only need to transport the briefcase controller and a power source (available to rent or buy) to the site to draw a sample.

Portable Fultz Pump – Disposable Tubing

Available to rent or purchase, this type of system combines the 3 key features of convenient, portable, and economical. The system consists of a briefcase controller, SP 400 pump head, female quick connect coupling, and power lead (not pictured).

The PVC coated power lead is made to customer specified length and we install watertight electrical plugs at the pump end for easy electrical connections. The female quick connect coupling has a barbed end to securely insert into the disposable tubing. Specify for 1/2" or 3/8" ID tubing.



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Water Quality Equipment

1 AMS Soil Augers

AMS soil augers are commonly used for obtaining disturbed samples at or near the surface and for boring to depths where samples may be obtained with a soil sampler or soil core sampler. AMS augers are available in stainless steel for EPA testing or carbon steel bits with stainless steel cylinders for general soil sampling and augering.

Perfect for augering shallow depths, AMS soil augers can also auger deeper depths and are generally limited by only the time and muscle of the user.

- Most models available with a threaded or Quick Connect connection.
- A rounded bail for added torque resistance.
- Stainless steel cylinder for easier decontamination.
- Specially formed bits that dig and cut through the soil at the same time for easy penetration.
- Cut hole up to 1/4" larger than the cylinder to minimize drag.



2 Split Soil Core Samplers

The split soil core sampler has a vertically split cylinder (cup set) that allows easy extraction of the soil core from the liner and prevents breakage of the core. Use it without a liner to collect undisturbed cores for immediate field examination and testing, or it can be used with a liner for collection of undisturbed, sealed cores.



Sludge & Sediment Samplers

Sludge and sediment samplers are essentially soil core samplers that have been designed to retain samples from non-cohesive materials – including: underwater sediment in shallow lakes, streams, and various types of impoundments. They can be used to take undisturbed samples for geotechnical analysis and are capable of taking high-quality samples for chemical analysis.

3 AMS Sludge Sampler

- Primarily used for shallow sampling, they can be used up to 10ft. in the right conditions.
- Used with or without liners.
- Very portable and do not require extensive mobilisation and demobilisation.



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Water Quality Multiparameter Water Quality Meters

1 Model WQC-24 Multiparameter Water Quality Meter (8–11 parameters plus water depth available)

The Model WQC-24 is the latest development in DKK-TOA's range of multi-parameter water quality meters. This instrument combines a compact, high performance and robust water quality monitoring system.

The 45mm outer diameter sensor probe can provide measurement of up to 11 parameters simultaneously out of a total of 17 available parameters. The instrument also features an interface port for connection to a Global Positioning System (GPS), Local Area Network (LAN) printer or other communication peripherals.

8 Standard Parameters

- Max 11 Parameters out of 17 available.
- Optional water depth sensor.
- Independent Sensor Memory/Logger.
- RS232 Interface for external peripherals.
- Waterproof meter (IP-67, submersible).
- GPS receiver compatible.
- Base configuration includes pH, DO, turbidity, temperature, conductivity, salinity, total dissolved solids, and specific gravity.
- Options for ORP, specific ions including nitrate, chloride, fluoride, calcium, potassium, and ammonia ion and chlorophyll.
- Measurement to a depth of 100m is possible.



2 Model WQC-22A Multiparameter Water Quality Meter (6 parameters measurement)

The WQC-22A water quality meter is an advanced, portable, multi-parameter instrument which can measure water quality in terms of six fundamental parameters. These are pH, conductivity, DO, turbidity, temperature and salinity. This instrument is suitable for a broad range of applications such as monitoring rivers, lakes & dams, agriculture, industrial effluent, sewage and seawater.



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Water Quality Water Level Loggers

1 WL16 Water Level Loggers Submersible Pressure Transducer and USB Datalogger Combination

- Four sample modes: 10 times per second, timed, logarithmic, and exception.
- CE Certified.
- User friendly software included.
- USB and Serial communication options available.
- Serial version is telemetry compatible.
- PDA software simplifies field data collection.
- No need to remove sensor for data collection or battery change.
- Highly accurate water level measurements.
- User programmable start and stop alarms, engineering units, and field calibration setup.
- Unique 0-3' range for shallow water.
- Wet-wet transducer eliminates vent tube concerns.
- Automatic barometric pressure and temperature compensation.



2 W400 Water Level Sensor Submersible Pressure Transducer for Monitoring Level and Pressure

- Completely submersible sensor and cable.
- Compact, rugged design for easy installation.
- 4-20mA output sensor compatible with most monitoring equipment.
- Vented cable for automatic barometric compensation.
- Dynamic temperature compensation system.
- Not affected by foam, wind, or rain.
- CE certified.



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Water Quality Consumables

3 Disposable Bladders Replacement pump bladders - sold in a pack of 10.



4 Calibration Solution pH4 & 7, EC, Conductivity & Salinity Standard, Oxygen probe service kit and zero DO solution.



5 Decontamination Solution Decon 90 Supplied in 1 litre, 5 litre and 20 litre high density polyethylene containers.



6 Polyethylene Disposable Tubing Tubing for use with groundwater sampling systems. Low and high density polyethylene available. Tubing is supplied bagged in plastic to ensure no cross contamination.



Water Quality Consumables

Allara stocks an extensive range of environmental consumables. If you need assistance with product selection, or other products not illustrated in this catalogue, please contact your local Allara representative.

1 Field Decon Kit • Order the field decon kit with your rental to take the hassle out of the field decon process. • Includes 500mL of Decon solution, 3x3m plastic ground sheet, Buckets, brushes. (20L distilled water optional). Simply return the buckets and brushes with your rental equipment.



2 Bailers & Bailer Twine Save time in the field and work smarter by using disposable bailers. Disposable bailers eliminate field cleaning and cross contamination. Available in weighted and non weighted. Includes an improved top so they fill and empty faster than any other bailer on the market.



7 In-line Filters 0.45 Microns 0.45 micron disposable in-line 700cm² effective filtration area.



8 Syringes & Filters This range of disposable syringes and filters are the simple way to sample for metals. • Luer lock fittings. • No field decon required.



9 Stericup Filter Units Vacuum-driven filtration and storage devices. The Stericup vacuum filtration system combines a Steritop Filter Unit with a receiver flask for processing and storing volumes from 150mL-1,000mL.

Its new no tip/easy grip flask design and compact profile improve stability during filtration, make gripping the receiver easier, and make Stericup Filter Units ideal for use in laminar flow hoods.



10 Gloves Disposable textured non-slip grip, nitrile powder free rubber gloves.



Heat Stress Area Heat Stress Monitor

Applications: Area Heat Stress

- Occupational Heat Stress.
- Indoor air quality inspections.
- Thermal comfort monitoring.
- Sport/recreational heat stress.
- HVAC system performance testing.

- 1 Quest Temp 34/36**
- Monitors dry bulb (ambient temperature), wet bulb (evaporative cooling) and globe temperature (radiant heat exposure).
 - Calculates indoor and outdoor WBGT indices.
 - Temperature and relative humidity measurement ranges of -5-100°C and 0-100°C respectively.
 - 3.7 days of memory when datalogging all three sensors at 1 minute intervals.
 - 150 hours run-time with 1x9V alkaline battery.



Radiation, Light & Weather RF Radiation Monitor

Applications: RF Radiation

- Power supply.
- Industry.
- Satellite communications.
- Medicine.
- Railroads.
- Telecommunications.
- Energy companies.

- 1 RadMan Personal Monitor**
- RadMan monitors have a compact, durable housing and are capable of dual electric (E) and magnetic (H) field detection, and wideband shaped frequency response. The 'shaped' frequency response means that the monitor has frequency-dependent sensitivity that matches the Australian requirements.

The alarm criteria and the output information are incorporated in the 'Percent of Standard' LED indicators.

- Non-Ionising isotropic meter.
- Personal monitor, leak detector or measurement tool.
- Dual Electric (E) and Magnetic (H) field detection.
- Wideband shaped frequency response.
- Visual and audible alarms.
- 1MHz-40GHz frequency range.
- 200 hours run-time with 2xAA alkaline batteries.



Applications: Light Meter

- Laboratories.
- Environmental studies.
- Real estate inspections.
- Schools and workplaces.

- 2 Light Meter**
- Pocket-portable digital illuminance meter with easy to read LCD display.
 - Measurement range of 0.1-19,990 Lux.
 - Photoreceptor head rotates 280° ensuring accurate readings in hard to reach places.
 - Single button operation performs power on, display, measurement value, hold and power off functions.
 - NATA calibrated.



Air-Met Scientific & Allara Instrument Hire have been servicing the industrial, hygiene and environmental industries with quality equipment for 25 years.

The Air-Met Group provides sales, service and rental options for the best equipment in the industry.



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