Catalogue April 2017

VALEPORT

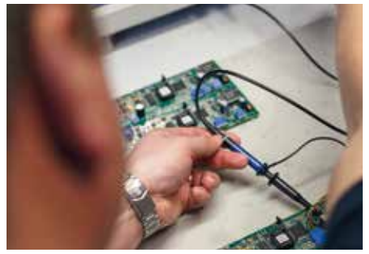
DESIGN • MANUFACTURE • TESTING • CALIBRATION
QUALITY UNDERWATER INSTRUMENTATION

ocean BUSINESS 17 Edition

IN OUR ELEMENT

DESIGN

Research and Development is at the core of Valeport. Our products are developed from listening to our customers' needs and requirements. The skill of translating a market-led idea into a specification, then design and ultimately a product requires the dedicated team of mechanical, electronic, firmware and software engineers at Valeport.



MANUFACTURE AND TEST

The ISO accredited Quality System that governs Valeport's manufacturing process is fundamental. From the mechanical parts produced in our CNC machine shop, through rigorous testing of PCBs in our ESD protected factory to the final assembly and calibration of sensors and instruments, there are no short cuts.

SERVICE AND CALIBRATION

The sale of an instrument is the start of our relationship with a customer, not the end. With facilities including ultra-stable temperature and salinity baths, high accuracy temperature bridges and standards, a tow-tank and pressure test vessels, our Service and Calibration staff are able to keep your instrument performing as new for many years. That is why we offer a full 12 month warranty on all serviced equipment - to give you the same confidence in our products that we have.

NEW from Valeport in 2017

Spring is in the air, the industry is buoyant and there are exciting times ahead at Valeport during 2017 with new sensors, probes and software due for release over the coming months. Here's a snapshot of what's to come:

Optical Sensor Progress

Valeport's venture into design and manufacture of optical sensors continues with turbidity, chlorophyll a, rhodamine, fluoresceine, phycocyanin and a crude oil sensor with UV excitation at 365nm.

AUV Sensor Technology

AUV manufacturers worldwide already use Valeport technology to measure sound velocity, temperature, depth, distance (altimeter) and chlorophyll via a fluorometer. Talk to us about your requirements and find out what we can do for you.

Turbidity Measurement

Our combined OBS/Nephelometer Turbidity sensor is sure to create interest very quickly. First integration will be as dredgeMATE which combines the popular SWiFT SVP (CTD) technology and the Turbidity sensor to make a very useful profiler, especially for the dredging community. It will of course appeal to any surveys requiring CTD + Turbidity!

Seal Tag Sensor with Fluorometer

Our association with the Scottish based Sea Mammal Research Unit (SMRU) has seen a thousand plus CTD sensors supplied for their tags over the years. We have now designed and introduced a fluorometer to make a CTF sensor and still maintain a small footprint to continue tag integration. This new sensor development will help both SMRU and its customers to obtain invaluable oceanographic data sets.

NEW from Valeport in 2017

PROFILER UPGRADES

Revisions of robust profilers, the rapidSV and rapidCTD include rechargeable battery pack, GPS and dual Bluetooth. This will allow much longer deployment times, the benefits of geo-location of files and enhanced Bluetooth communications. A favourite with users of the Teledyne rapidCAST winch deployment systems, the rapid series of probes allow data profiling whilst a vessel is underway.

Valeport Connect

Connect is the latest software for use on iOS and Android platforms. Windows 10 for PC use will follow soon. It is aimed at Valeport products with Bluetooth communications only with a view to automatic connection when in range (~10m) and download capability with data translation. The first product to benefit from this will be the SWiFT SVP and once downloaded, current and historic data can be visualised and selected on a map. Multiple profiles can be selected to compare in graph view. Graphs can be shared via email and cloud services.

A NEW MONITOR RANGE

Want to log tide, waves, pressure, temperature, chlorophyll, rhodamine, fluorescein? Our new Monitor range will offer GPS position, long life rechargeable battery, large memory and easy set up / transfer of data.

SOUND VELOCITY SENSORS & PROFILERS

Valeport have become world leaders in Sound Velocity technology through both innovative development and meticulous attention to detail throughout the design, manufacture and especially calibration processes. Now established at the forefront of Digital Time of Flight technology for more than a decade, Valeport has made a series of incremental changes to reinforce that position ensuring that Valeport sensors offer levels of performance that are demonstrably far in excess of even the latest offerings from our competitors.

- Genuine Accuracy of ±0.02m/s (Total Error Budget)
- Precision of ±0.002m/s (peak to peak noise)
- Operating range of 1375m/s to 1900m/s (covering all possible environments)
- Data rates up to 60Hz (instrument dependent)

As well as having a range of standard products, we are also able to offer customised solutions, thanks to our in-house design and manufacture capability.

Contact our Sales team to discuss your Sound Velocity Sensors and Profiler requirements, and decide on the right instrument for the job.

MIDAS Sound Velocity Profiler

The MIDAS Sound Velocity Profiler is Valeport's premium SVP and provides the most accurate Sound Velocity Profiles currently possible. As well as using the world leading digital time of flight sound speed sensor, this instrument also has a ±0.01% pressure sensor, and features Valeport's synchronised sampling technique to guarantee that all sensors are sampled at exactly the same point during a profile. Titanium construction and a large memory make it suitable for rapid profiling down to 6000m depth.

MIDAS SVX2 Combined CTD/SVP

Recognising the conflict faced by users requiring the superior sound velocity data from an SVS, but still needing the Salinity and Density data from a CTD, the MIDAS SVX2 combines both technologies to give the best of both worlds. Now fitted with a 0.01% pressure sensor as standard, the SVX2 also uses synchronised sampling of all data to ensure perfect profiles. The digital time of flight SV sensor data is the most accurate available. It is, therefore, possible to compare the true sound velocity data with that generated by commonly used equations.

ultraSV

Ultra-fast, ultra-compact, ultra-dependable. The next generation of sound velocity sensor. Redesigned from the connector up, the ultraSV offers a truly smart and exchangeable sound velocity sensor without compromise. Shallow water use to 200m.

SOUND VELOCITY SENSORS & PROFILERS

miniSVS
Sound Velocity Sensors

miniSVS Sound Velocity Sensors use state of the art digital “time of flight” technology to provide the lowest noise, highest accuracy, best resolution sound velocity data available. Small size and a choice of sensor lengths down to just 25mm make the sensor suitable for a variety of applications and the optional pressure or temperature sensor options adds to the versatility of the instrument. There is a choice of data format to allow interface to existing systems. OEM and custom designs can be discussed.

miniSVP
Sound Velocity Profiler

The miniSVP is a cost effective solution to Sound Velocity Profiling, designed to make the best SV measurements in the world available to everyone. Featuring Valeport’s unique acclaimed “time of flight” SV sensor, the miniSVP is available in either 500m rated acetal or 6000m rated titanium versions. A single C cell and large Flash memory allow hundreds of profiles to be recorded, and the pre-programmed profiling patterns allow it to be setup and deployed quickly and easily.

Rapid SV Profiler

The Rapid SV Profiler has been developed for fast collection of Sound Velocity Profiles, without compromising the quality of data. The world’s most accurate Sound Velocity sensor with virtually instantaneous response time, data acquisition rates of up to 32Hz housed in a low drag housing results in the highest quality profiles at drop rates up to 5m/s.

UV-SVP

Based on the Valeport miniSVS, the UV-SVP offers a form-factor designed for underwater vehicles where space is at a premium. Incorporating Valeport’s class leading time of flight sound speed sensor, a PRT temperature sensor and a 0.01% pressure sensor in a compact package weighing just 750 grams, the lightweight titanium housing gives a depth rating of 3000m. A wide range (9-30V DC) isolated power supply and RS232 communications complete the package.

SOUND VELOCITY SENSORS & PROFILERS

SWiFT SVP

Designed from the outset with the intention of a seamless workflow, the SWiFT has integral GPS to geo-locate every profile. Data can be easily and quickly downloaded, reviewed and translated to common SVP formats wirelessly via Bluetooth Smart using the SWiFT APP on iOS devices or conventional RS232 serial cable. Data can be instantly shared via FTP, email and cloud services. With a battery endurance of up to a week, with easy charging via USB the SWiFT SVP is intended for coastal, harbour and inland hydrographic survey use and offers the highest quality sound velocity profiles in a compact, robust and portable package.

Thru Hull SV

A specific configuration of Valeport’s Sound Velocity Sensor, allowing the probe to be deployed through the vessel’s hull and safely recovered for maintenance without requiring docking. It is particularly useful for multi-beam applications where knowledge of sound velocity adjacent to the multi-beam transducer is necessary. The probe is also available with an optional temperature sensor.

Custom SV packages

Our in-house design, technology and manufacturing skills allow custom made sensor packages to suit most needs. Whether it is OEM or complete sensors, we expect to meet your sensor requirements with the highest accuracy possible. Typical solutions have been for AUVs, Submarines, Streamers, Inertial Navigation Systems and LBL system transponders. Please contact the factory to discuss your requirement.

TIDE GAUGES

Tide Gauges provide perhaps the most fundamental of all marine measurements - accurate tidal information. This is critical for Port & Harbour Operations, Dredging, Surveying, instrumentation deployments, and many other applications.

If you are looking for tide gauge equipment that can be deployed for either shore based or offshore / seabed applications, together with telemetry packages for secure data transfer, then Valeport can offer a comprehensive range of equipment. Features include:-

- logging of tidal data,
- ability to provide real time information,
- transmission of data over a variety of telemetry links,
- network capabilities,
- fixed displays or access through web or local intranet,
- seabed fixing or in-line mooring,

Whatever the application, the performance and reliability of Valeport Tide Gauges is renowned. Contact our Sales team to discuss your water level observation requirements and decide on the correct instrument for your project.

miniTIDE
Self Recording Tide Gauge

The miniTIDE is an entry level Water Level Recorder. Designed for short term underwater deployments it is fitted with a 0.01% temperature compensated piezo-resistive cell and will record high accuracy pressure data for a period of 1 month at a 10 minute sampling interval, using a single alkaline C cell. This makes it ideal for use in short term projects or for academic studies. Available with a choice of pressure ranges, and with either 500m acetal or 6000m titanuim housings.

MIDAS WLR
Water Level Recorder

The MIDAS WLR is a sophisticated Water Level Recorder / Seabed Tide Gauge. Designed for long or short term, autonomous or real time deployments in offshore environments, or locations where a traditional shore based tide gauge is impractical. The MIDAS WLR may be moored in line or to the seabed. The standard instrument is fitted with a 0.01% accuracy pressure sensor and PRT temperature sensor and features a variety of operating modes. Available with a choice of pressure ranges, and with either 500m acetal or 6000m titanium housings.

VRS-20
Radar Level Sensor

The VRS-20 is a pulsed k-band radar level sensor developed by Valeport to work seamlessly with the TideMaster tide logger. Operate standalone with optional integrated GPRS telemetry or interface to a third party data logger. Versatile and simple to install, the VRS-20 addresses a number of the issues traditionally associated with water level measurement. Non-contact technology removes the installation, corrosion and fouling issues of submerged sensors, while simplifying datum control. Accuracy and performance are unaffected by changes in water density and atmospheric conditions.

TIDE GAUGES

TideMaster
Portable Tide Gauge

The TideMaster is a small, cost effective Water Level Recorder, specifically designed for applications where the user requires an accurate record of water height, but with the added option of meteorological data via an ultrasonic wind speed and direction sensor. Suitable for use in fresh or salt water, the TideMaster can be deployed for up to 1 year, dependant on the sampling rate, with instrument set up and data retrieval via an optional display panel or using the PC software supplied. Alternatively, the system can be supplied with GPRS and radio modules for real time data transmission.

TideStation

The TideStation is a self-contained Tidal Observation solution packaged to optimise performance, be flexible in its configuration and simple to install and maintain. TideStation has TideMaster at its core - Valeport's industry leading Tide Gauge system. Offering Pressure, Radar and hybrid tidal observation techniques coupled with interfaces to other meteorological and third party systems. All data can be recorded locally and broadcast to a central command and control point as required using Port-Log.net Data management software for sharing and publishing.

TELEMETRY

Telemetry Instruments provide a solution to the common need to transmit data reliably, quickly and cost effectively from remote locations. Valeport offer a range of instruments from short range Bluetooth modules, medium range VHF/UHF radio modules and range independent GSM/GPRS modules. These can be housed in rugged housings for shore based communications or mounted on buoy/platforms for offshore installations.

Contact our Sales team to discuss your Telemetry requirements, and decide on the correct solution for your project.

Telemetry & Software

Valeport telemetry solutions are centred on our IP67 housed package offering GSM/GPRS, UHF or VHF transmission options. The robust housing contains back up battery capability to cover short term survey work or power outs. Compatible with most Valeport products, the units are designed to provide transparent links between instrument and operating software, as well as third party Internet / FTP data display services such as PortLog from OceanWise, UK.

CURRENT METERS & OPEN CHANNEL METERS

Current Meters and Open Channel Meters have been a speciality of Valeport's since the company was first formed in 1969. The company started making instruments for measuring the speed of the water in London's River Thames; since then our product range has grown, but our expertise in current flow measurement remains.

Whichever type of instrument you require, whether it's the traditional impeller mechanism, or the high accuracy electromagnetic type, Valeport can offer a solution. Configurations are available that are suitable for use in a wide variety of applications, from hand held measurements in the smallest streams, through modelling experiments in the laboratory, to self-contained instruments for navigable rivers, estuaries, ROVs and the deep ocean.

Our impeller instruments use the simple premise of measuring the speed of rotation of a helix in the water. PTFE bearings eliminate the need for specialised lubricants and the magnetic contact closure minimises the moving parts in the system - this also allows the sensor itself to be remote from the measuring electronics (ideal in deep water applications).

The electromagnetic sensors use the Faraday Principle to measure the water speed. As a conductor (water) moves through an electromagnetic field (generated by the sensor), it generates a voltage that is measured by the sensor electrodes. Modern day signal conditioning electronics and filtering techniques allow highly accurate measurements to be made, and there is a choice of sensor shapes and sizes to suit the application. The solid state sensors and standard titanium / polyurethane construction provide excellent corrosion resistance, and depth ratings up to 5000m.

Contact our Sales team to discuss your Current Meter requirements, and decide on the correct instrument for your project.

MIDAS ECM Self Recording Electromagnetic Current Meter

The MIDAS ECM is a highly versatile point current meter, designed with durability and ease of deployment in mind. Valeport's latest electronics architecture allows multiple additional sensors, and a variety of communications options, making it one of the few multiparameter current meters that allows real time operations over several thousand metres of cable, as well autonomous deployments. Available with a choice of sensors and with either 500m acetal or 5000m titanium housings.

Model 106 Lightweight Current Meter

An entry level, lightweight alternative to larger flow meters, ideal for use in applications where the superior durability and depth rating of Valeport's larger meters is not necessary. Utilising the standard Valeport 125mm diameter impeller, the Model 106 features speed and direction parameters as standard, with further options of temperature and depth. Data (logged or real time) is compatible with Valeport's DataLog X2 software. The instrument is manufactured from titanium and polymers, giving excellent resistance to corrosion, whilst maintaining a small size and low weight. These features make the Model 106 the ideal instrument for coastal and estuarine applications, and other light duty survey work.

Model 803 ROV Electromagnetic Current Meter

The Model 803 is designed specifically for use on ROVs and other underwater vehicles, providing real time relative water velocity information for pilots. It may be fitted to ROVs to provide actual through the water speeds, or fitted to Tether Management Systems to give measurement of local flow conditions. Measurements are updated every second and the ROVLog™ software provides a graphic and data display, and enables data to be logged to disk.

Model 802 2 Axis Electromagnetic Current Meter

The Model 802 is the very latest in Valeport's electromagnetic flow sensing technology, developed over many years. State of the art electronics design ensures low power operation, yet maintaining low noise and high stability. A range of sensor heads and electronics packages mean that the Model 802 can be used in a wide variety of real time applications, or can easily be interfaced to customers' existing systems to provide a reliable, accurate current meter.

CURRENT METERS & OPEN CHANNEL METERS

Model 801 Electromagnetic Open Channel Flow Meter

This small solid-state sensor has been designed specifically for use in open channels where fouling by weed or sewage can be a problem. Valeport's experience in electromagnetic technology has ensured that the Model 801 is a high precision instrument which can be relied upon to give accurate readings (±0.5% of reading plus zero stability) over a wide flow range (±5 m/sec) in only 5cm of water. The control display unit provides a choice of averaging modes, standard deviation of the data, and an optional logging facility.

Model 001 & 002 Open Channel Flow Meters

The Valeport 'Braystoke' Model 001 and Model 002 flow meters provide a cost effective and reliable method of monitoring flow in a variety of environments, including salt, fresh and effluent water, from shallow streams to tidal waterways. The meters benefit from the design of the impeller bearings, which give low threshold velocity and consistent performance. Their ease of operation make the 001 and 002 ideal for field study use and an invaluable tool for hydrometric work. Available as either a wading or suspension set, all systems are supplied with the Model 0012B real time control display unit.

WAVE RECORDERS

Wave Recorders from Valeport are a "PUV" type that use Linear Wave Theory to analyse the pressure and current oscillations generated by the wave action. In near shore environments (<20m depth) it is not always possible to use a surface following buoy to measure wave activity.

In these circumstances the most cost effective solution is a bottom mounted, pressure based device. What makes Valeport's wave recording instruments different is that this data processing is all carried out on board, giving you:-

- descriptive statistics,
- energy spectra, and
- high resolution directional spectra all in real time.

Of course, all the raw data is logged as well, so you can use your own post-processing routines if you prefer.

Whether you are new to the field of wave measurement or an experienced user, the Valeport range offers you the perfect mix of simplicity and versatility to ensure that you get exactly the data you need, every time.

Contact our Sales team to discuss your wave recorder requirements, and decide on the correct instrument for your project.

MIDAS DWR Directional Wave Recorder

The MIDAS DWR Directional Wave Recorder represents a significant advance in PUV wave recording technology. As well as the standard non-directional data available from the MIDAS WTR, the MIDAS DWR also performs full onboard directional data analysis, allowing real time directional information at an unsurpassed 2° resolution. The unique features of the MIDAS DWR make it the most cost-effective solution to directional wave monitoring requirements in all shallow water coastal applications.

MIDAS WTR Wave / Tide Recorder

The MIDAS WTR uses the proven Linear Wave Theory wave analysis method and benefits from Valeport's latest sensor technology, together with 64 bit data processing, and an improved range of sampling options. Quick change battery carousel and intuitive operating software make the MIDAS WTR one of the most versatile yet easy to use pressure based wave recorders available.

CTD AND MULTIPARAMETER INSTRUMENTS

The CTD is perhaps the most commonly used tool in an oceanographer's armoury, providing detailed profile and time series data on the measured parameters Conductivity, Temperature and Pressure, but more particularly the calculated values of Salinity, Density and Sound Velocity.

Valeport offers a selection of instruments, from simple plug on sensors for OEM applications through hand held systems and devices for long term monitoring at fixed sites, to multiparameter profiling systems for deep ocean applications.

All Valeport CTDs use our own inductive Conductivity sensors. Digital sampling techniques ensure high accuracy, and the unique construction gives sensor stability at any depth. Temperature is always measured with a fast response PRT (Platinum Resistance Thermometer), and instruments also use industry standard strain gauge or resonant quartz pressure sensors.

Contact our Sales team to discuss your CTD and Multiparameter Instrument requirements, and decide on the correct instrument for your project.

MIDAS CTD Profiler

The MIDAS CTD is Valeport's premier CTD Profiler. High accuracy sensors (including ±0.01% pressure) and robust titanium design allow reliable operation to 6000m depth, under the harshest conditions. It also features truly synchronised sampling to ensure that all sensors are sampled at exactly the same point during a profile. Primarily for use as a self recording profiler, the MIDAS CTD also has a range of communications options for real time use, and the low power consumption and large memory also make it suitable for longer term deployments.

MIDAS CTD+ Multiparameter Profiler

The MIDAS CTD+ is a revolutionary Multiparameter CTD, with a wide choice of standard sensors. Featuring Valeport's latest 400 Series electronics, the CTD+ will sample all fitted sensors at exactly the same instant, at up to 8Hz. Advanced setup software allows a variety of sampling regimes including burst modes, delay starts, and conditional sampling. With up to 64MB memory and internal battery pack, as well as a selection of real time output formats, the CTD+ is perfect for both profiling or fixed mooring applications. In addition, the CTD+ may be used with Valeport's own water bottle carousel.

miniCT Probe

The miniCT probe packs the latest direct reading Conductivity and Temperature sensors into a small yet robust instrument. Featuring digital sampling techniques for improved and consistent performance under extreme pressure. 500m acetal and 6000m titanium versions are available, both with RS232 or addressable RS485 data outputs as standard.

CTD AND MULTIPARAMETER INSTRUMENTS

miniCTD Probe

The miniCTD is an entry level profiling CTD designed for short term applications where sensor performance cannot be compromised. Utilising the same Conductivity and Temperature technology available on our larger instruments, the miniCTD runs on a single C cell, and is fitted with a large flash memory to record several hundred profiles. Supplied with DataLog X2 software, the device features a variety of pre-programmed sampling modes for easy set up and operation. Available with a choice of pressure ranges, and with either 500m acetal or 6000m titanium housings.

fastCTD Profiler

An evolution of the miniCTD, the fastCTD Profiler has been designed to deliver high quality CTD casts at rapid drop rates. Fitted with a new conductivity cell for optimum flow-through, a fast response thermistor temperature sensor and a 0.01% pressure sensor synchronously sampling at up to 32Hz, the fastCTD Profiler will deliver superior profiles in a lightweight and robust package. An optional, integral Fluorometer from our Hyperion range makes the profiler ideal for rapid environmental impact assessment or oceanographic studies. Available with either connector or Bluetooth communication options.

rapidCTD

An evolution of the miniCTD and rapidSV, the rapidCTD is designed to operate autonomously and optionally in conjunction with the OceanScience rapidCAST underway profiling winch to deliver the highest quality CTD casts, while the vessel is underway. A conductivity cell designed for optimum flow-through, a fast response thermistor sensor and a 0.01% pressure sensor synchronously sampling at up to 32Hz deliver the highest quality profiles in a robust package.

ECHOSOUNDERS & BATHYMETRY INSTRUMENTS

Bathymetry: the science of measuring depth. Whether you are surveying, dredging or managing underwater operations, accurate bathymetric data is critical, be it overall water depth or the location of specific instrumentation within the water column. Valeport presents a variety of integrated instrumentation packages designed to provide that high quality data, whatever the application.

Valeport's unique digital signal processing techniques use fuzzy logic to pick out and lock onto the genuine echo, while adaptive power and gain control means that erroneous echoes are minimised and accurate readings can be made in water depths as shallow as 30cm. As a stand alone altimeter, this technology is ideal for integration into bathymetry packs. Combining the technology with integral GPS receiver and on board data logging provide our echosounders with the benefits of maximum versatility and minimal deployment time.

Contact our Sales team to discuss your Echosounders and Bathymetry requirements, and decide on the right instrument for your job.

MIDAS Surveyor GPS Echosounder

The MIDAS Surveyor has been designed to offer an entry level solution for small scale hydrographic surveys. The system is supplied with a 210kHz transducer as standard, and uses Valeport's own advanced digital signal processing techniques to ensure high accuracy and reliable bottom tracking. With an integral SBAS enabled DGPS receiver, the MIDAS Surveyor will log position and depth data for over 30 hours, as well as performing on-line correction using external heave and tide data inputs. Options include an additional 33kHz transducer, or high accuracy 16 channel DGPS receiver.

MIDAS BathyPack Bathymetry Package

The BathyPack is one of Valeport's premier MIDAS products, using state of the art sensors to generate precision Sound Velocity and Density profiles for highly accurate depth and height data when integrated with our VA500 Altimeter. Supplied with BathyLog Software that allows all profile data to be monitored and depth corrected for Density in real time and logged. Extra miniIPS pressure sensors can also be interfaced to BathyLog thus offering a very useful sensor suite.

ultraP

Ideally suited to system integrators and OEM applications, the ultraP is a truly exchangeable Pressure Sensor with all critical electronics contained within the housing. Select the depth rating that suits your operational depth to maintain the best possible accuracy. The pressure sensor fitted to the ultraP is a temperature compensated piezo-resistive sensor, which delivers the performance previously only available from a resonant quartz sensor at a more cost-effective price.

ECHOSOUNDERS & BATHYMETRY INSTRUMENTS

miniIPS Intelligent Pressure Sensor

The miniIPS is a precision underwater pressure sensor; 0.01% accuracy, a titanium housing and a choice of pressure ranges make it a cost effective solution for offshore engineers, vehicle pilots, and other operators who require highly accurate depth information in real time. The miniIPS is also compatible with Valeport's MIDAS BathyPack and BathyLog software, allowing the depth data to be continually updated for Density variations in the water column.

Altimeter

The new Valeport Altimeter range uses state of the art DSP techniques to achieve exceptional range and accuracy. With our 500kHz version, we even outperform traditional 200kHz instruments in terms of range and resolution. This high accuracy Altimeter is supplied in a compact titanium housing for operation in up to 6000m water depth. It can be easily interfaced with our own MIDAS Bathypack system, or customers' own systems via RS232, RS485 or analogue interfaces. An optional high accuracy 0.01% pressure transducer is available to enhance operational use. The VA500 is also available in right angled transducer versions.

OPTICAL SENSORS

Hyperion Fluorometer

Valeport's Hyperion Fluorometer sensor range delivers high performance measurements of Chlorophyll, Fluorescein and Rhodamine in a compact and robust package ideal as a standalone sensor, for ROV and AUV integration or used with as part of a multi-sensor array and data logger. Offered as standard in a 6000m depth rated, titanium housing the Hyperion Fluorometer has a wide range (9-30V DC) isolated power supply, data output up to 32Hz and RS232 communications.

THE UK'S LEADING MANUFACTURER OF HYDROMETRIC, HYDROGRAPHIC AND OCEANOGRAPHIC INSTRUMENTATION

TECHNOLOGY YOU CAN TRUST

Established in 1969, Valeport designs and manufactures instrumentation for the oceanographic, hydrometric and hydrographic markets, with a worldwide customer base that includes the environmental, military, oil & gas, renewable, construction, dredging and civil engineering sectors.

Key to our reputation for supplying high quality, reliable instrumentation is our philosophy of retaining all aspects of the development and manufacturing processes in-house. Our riverside premises in the picturesque town of Totnes in the southwest of the UK houses all our facilities for designing, CNC machining, environmental testing, assembly, calibration and servicing of all our instruments.

This philosophy gives us complete control over every aspect of our products, allowing us to provide our customers with the right tools to do their jobs, with minimum fuss and maximum confidence.

In 2011, we recognised that a combination of this philosophy and our consistent growth meant that we were outgrowing our premises on the bank of the River Dart in Totnes, so we embarked upon the most significant step so far in Valeport's history. In September 2013, the stunning Reade Building was completed; situated next door to our existing site, the 16,000ft² (1,600m²) 3½ storey building more than doubles our workspace, and houses our entire production facility with a fully equipped CNC machine shop, state of the art calibration laboratory, and two floors of ESD protected assembly workshop.

With half our staff now situated in the Reade Building, our existing 12,000 ft² (1,200m²) facility can now be utilised more efficiently, allowing us to further expand our R&D, sales and service capabilities as well as maintaining a second calibration laboratory dedicated to service and recalibration.

We firmly believe that by continuing to invest in our capabilities and facilities, and by having complete control over every aspect of product design, development and manufacture, we will continue to provide our customers with the high levels of quality, performance and service they have come to expect from us.

Tide Gauges

Wave Recorders

Current Meters

Echo Sounders & Bathymetry

Sound Velocity

Ocean Engineering

Telemetry Instruments

CTD & Multiparameter

Optical Sensors

VALEPORT

www.valeport.co.uk

Valeport Ltd | St Peter's Quay | Totnes | Devon | TQ9 5EW | United Kingdom

Tel: +44 (0) 1803 869292 | Email: sales@valeport.co.uk

ACS REGISTRARS Quality Assurance ISO 9001 UKAS QUALITY MANAGEMENT 229

ACS REGISTRARS Environmental Assurance ISO 14001 UKAS ENVIRONMENTAL MANAGEMENT 229

Design by Logo Design CPP www.logodesign.co.uk

Cover photograph: Christopher Swann www.oceanus.uk.com