

ROV Instruments Shortform Catalogue

Valeport presents a range of sensors and instruments designed specifically for the ROV and AUV markets. Particular consideration has been given to ease of interfacing, durability, and simplicity of operation. All sensors are based on standard Valeport products, with proven technology and reliability.

MODUS SVS



Valeport's "time of flight" sound velocity sensor is the most accurate sound speed sensor on the market. The Modus SVS uses this sensor with state of the art processing electronics to give a very versatile package. There is a choice of sampling rates and patterns, and to make interfacing particularly easy, RS232 and addressed RS485 communications are both available, depending on pin selection.

A wide voltage input range of 9 - 30vDC ensures compatibility.

Sound Velocity

Range: 1400 to 1600m/s
Accuracy: ± 0.03 m/s
Resolution: 0.001m/s

Pressure (optional)

Range: 20, 100, 1000 or 6000dBar
Accuracy: ± 0.1 %FS
Resolution: 0.005%

MODUS CTD



Using similar processing electronics to the Modus SVS, the Modus CTD is a highly accurate real time CTD, using Valeport's own pressure balanced Conductivity cell, fast response PRT, and strain gauge pressure transducer. A choice of sampling patterns, data output formats and a wide voltage input range make the Modus CTD the CTD of choice for ROV and AUV sensor suites.

Conductivity

Range: 0.1 - 80mS/cm
Accuracy: ± 0.01 mS/cm
Resolution: 0.002mS/cm

Temperature

Range: -5 to 35°C
Accuracy: ± 0.005 °C
Resolution: 0.001°C

Pressure

Range: 20, 100, 1000 or 6000dBar
Accuracy: ± 0.1 %FS
Resolution: 0.005%

MODUS IPS



The Modus IPS has been developed to bring the versatility of the Valeport "Modus" package to high accuracy pressure measurement. The Modus IPS uses a resonant quartz pressure transducer to give the highest accuracy data, and the instrument benefits from the standard "Modus" features of RS232 and RS485 output formats as standard, a

choice of sampling patterns, and a wide voltage input range.

Pressure

Range: 0 - 500psi
Accuracy: ± 0.01 %FS
Resolution: ± 0.015 % (worst case - dependent on sampling rate)

Temperature (optional)

Range: -5 to 35°C
Accuracy: ± 0.005 °C
Resolution: 0.001°C

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MINISVS



The miniSVS uses Valeport's world leading sound velocity technology in a miniaturised package. Offering a less sophisticated choice of sampling patterns and data formats than the larger Modus SVS, the miniSVS is nevertheless a remarkably simply instrument to use, responding to simple ASCII commands, or alternatively

sampling immediately whenever power is applied. Data is output in RS232 as ASCII text. Titanium construction gives 6000m depth rating, and OEM version are also available.

Range: 1400 to 1600m/s
Accuracy: ± 0.03 m/s
Resolution: 0.001m/s

MODEL 620



Originally designed as a device for interfacing to third party sensor suites, the Model 620 CT sensor is equally at home on ROV or AUV installations. With pressure balanced conductivity sensor and PRT temperature sensor, the Model 620 holds true to the concept of simple interfacing, offering RS232, RS485 or analogue outputs, and a wide input range of 9 - 30VDC. Smaller and less

sophisticated than the Modus CTD (although no less accurate), the Model 620 is a very cost effective instrument.

Conductivity

Range: 0.1 - 80mS/cm
Accuracy: ± 0.01 mS/cm
Resolution: 0.002mS/cm

Temperature

Range: -5 to 35°C
Accuracy: ± 0.005 °C
Resolution: 0.001°C

MODEL 803



The Model 803 ROV Current Meter gives vehicle speed through the water. It uses a solid state electromagnetic sensor to calculate current speed, and presents the data in m/s or knots, and bearing of flow. The sensor is compact, very robust, and a valuable tool for ROV pilots. RS232, RS485

and analogue output options are available, and digital data output is displayed on Windows based ROVLog software.

Range: 0 - 10kts (0 - 5m/s)
Accuracy: ± 0.02 kts
(± 0.01 m/s) +1% reading
Resolution: 0.01kts (0.001m/s)

Valeport manufactures a wide range of oceanographic and hydrometric instruments including self-recording and direct reading multi-parameter current meters, sound velocity probes, CTD probes, wave recorders, tide gauges, open channel flow meters, water and plankton samplers, winches, sinker weights, connectors and accessories.

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