



UV-SVP Sound Velocity, Temperature and Pressure for an Underwater Vehicle



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 (in air), 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.

Sensors

Sound Velocity

Each sound velocity measurement is made using a single pulse of sound travelling over a known distance, so is independent of the inherent calculation errors present in all CTDs. Our unique digital signal processing technique virtually eliminates signal noise, and gives an almost instantaneous response; the digital measurement is also entirely linear, giving predictable performance under all conditions.

Range:	1375 - 1900m/s
Resolution:	0.001m/s
Accuracy:	±0.020m/s

Temperature

Range:	-5°C to +35°C
Resolution:	0.001°C
Accuracy:	±0.01°C

Pressure

Range:	10, 30, 100, 300
Resolution:	0.001% range
Accuracy:	±0.01% range

Data Output

RS232 & RS485 output, selected by command code. RS232 data may be taken directly into a PC over cables up to 200m long, whereas RS485 is suitable for longer cables (up to 1000m) and allows for multiple addressed units on a single cable.

Baud Rate:	19200 - 115200
Protocol:	8 data bits, 1 stop bit, No parity, No flow control

Electrical

Voltage:	8 - 30V DC Isolated
Power:	0.35W
Connector:	SubConn MCBH6F

Physical

Depth Rating:	3000m
Weight:	0.75 kg (in air)
Housing & Bulkhead:	Titanium

Ordering

06520549-XX	Supplied with: <ul style="list-style-type: none"> • 0.5m interface cable • Operation manual and transit case
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Note:	XX denotes pressure transducer range. Select from 10, 30, 50, 100, 300, or 600 Bar
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