



Aimed primarily at the underwater vehicle market, the uvSVX is a compact direct reading instrument that outputs a selectable, fixed data string at up to 60Hz of Sound Velocity, Temperature, Depth and optionally, Salinity and Density calculated with Valeport's proprietary DASH formula.

High accuracy data is assured with the added bonus of Valeport's unique interchangeable pressure module that allows customers to maximise operationally specific depth requirements. This innovative pressure module, with integral calibration, can be changed in a couple of minutes without opening the instrument and is available in 0.01% accuracy 10, 20, 30, 50, 100, 200, 300, 400 and 600 Bar.

Vibration and Shock tested to the standard ISO 13628-6:2006 (Q2 Levels).

## Key Features

- Multi-parameter
- Sound Speed
- Bathymetry
- Valeport configure & Catalog X2 software

## Sensors

Each sound velocity measurement is made using a single pulse of sound traveling 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.

## Data Output

RS232 & RS485 or Ethernet output. 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.

## Software

Valeport Configure has been introduced to simplify the configuration of instruments prior to deployment. It can be used instead of DataLog X2.

## Specifications

### Sound Velocity

Range	1375 - 1900m/s
Resolution	0.001m/s
Accuracy	±0.02m/s

### Temperature

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

### Interchangeable Pressure Sensor Module

Range	10, 20, 30, 50, 100, 200, 300, 400 & 600 Bar
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Resolution	0.001% range
Accuracy	±0.01% range
Units	dBar (default option)   Meters   Feet

### Calculated Parameters and Accuracies

#### Calculations based on Valeport's proprietary DASH formula

Salinity	Salinity ±0.05 PSU
Density	Density ±0.05 kg/m <sup>3</sup>
Baud rate	2400-230400
Protocol	8 data bits, 1 stop bit. No parity. No flow control
Modbus	8N1 or 8E1 framing
Format	RS232 & RS485

### Physical

Housing	Titanium
Size	78mmØ x 218mm (excluding connector)
Connector	SubConn MCBH6F
Vibration & Shock	Tested to standard ISO 13628-6:2006 (Q2 Levels)
Depth Rating	6000m
Weight	1.9kg (in air)
Shipping	42 x 32 x 30cm, 5kg

### Electrical Voltage

Input	9-28V DC (isolated)
Power	RS232 & RS485 - 30mA @ 12V DC Ethernet - 130mA @ 12V DC

### Ordering

0650030-XXX	For RS232/RS485 version Supplied with: <ul style="list-style-type: none"> <li>• 0.5m interface cable</li> <li>• Operation manual and transit case</li> </ul>
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0650031-XXX

For Ethernet version Supplied with:

- 0.5m interface cable
- Operation manual and transit case

Note

XX denotes pressure transducer range.  
Select from 10, 20, 30, 50, 100, 200, 300,  
400 or 600 Bar  
Two communication options of the uvSVX will  
be offered,  
RS232 / RS485 and Ethernet

PTSA-XXX

Additional interchangeable pressure modules

Note

XX denotes pressure transducer range.  
Select from 10, 20, 30, 50, 100, 200, 300, 400 or 600 Bar

