

# uvSVX

## Sound Velocity Profiler



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).

### Specifications

<b>Product</b>	uvSVX
<b>Country of origin</b>	UK
<b>Manufacturer</b>	Valeport Limited
<b>Materials</b>	Titanium

## Sound velocity

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

## Temperature

<b>Range</b>	-5°C – +35°C
<b>Resolution</b>	0.001°C
<b>Accuracy</b>	±0.01°C

## Interchangeable pressure sensor module

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

## Data Output

<b>Baud rate</b>	2400-230400
<b>Protocol</b>	8 data bits, 1 stop bit. No parity. No flow control
<b>Modbus</b>	±0.01% FS
<b>Format</b>	RS232 & RS485

## Physical

<b>Size</b>	78mmØ x 218mm (excluding connector)
<b>Connector</b>	SubConn MCBH6F
<b>Vibration &amp; shock</b>	Tested to standard ISO 13628-6:2006 (Q2 Levels)
<b>Depth rating</b>	6000m
<b>Weight</b>	1.9kg (in air)
<b>Shipping</b>	42 x 32 x 30cm, 5kg

## Electrical

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

## Calculated parameters and accuracy

<b>Density</b>	Density $\pm 0.05$ kg/m <sup>3</sup>
<b>Salinity</b>	Salinity $\pm 0.05$ PSU

## Ordering

<b>0650030-XXX</b>	for RS232/RS485 version Supplied with: 0.5m interface cable Operation manual and transit case
<b>0650031-XXX</b>	for Ethernet version Supplied with: 0.5m interface cable Operation manual and transit case
<b>Note</b>	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
<b>PTSA-XXX</b>	Additional interchangeable pressure modules
<b>Note</b>	XX denotes pressure transducer range. Select from 10, 20, 30, 50, 100, 200, 300, 400 or 600 Bar

