



## ultraSV – OEM Sound Velocity Sensor



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.

Ideally suited to system integrators and OEM applications, the ultraSV is a truly exchangeable SV sensor with all critical electronics contained within the housing.

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 almost instantaneous response; the digital measurement is also entirely linear, giving predictable performance under all conditions.

### Performance:

Range:	1375 – 1900 m/s
Resolution:	0.001 m/s
Accuracy:	±0.020 m/s
Sample Duration:	~30 µS @1500 m/s
Sample Rate:	Up to 300 Hz

### Electrical:

Voltage:	5V DC regulated ±3%
Power:	< 250mW
Connector:	SubConn MCBH6F

### Communications:

Output:	RS485 \ TTL
Protocol:	4800 to 230400 baud (8,1,N)
Format:	Proprietary NMEA string

### Physical:

Depth Rating:	6000m
Size:	38mmØ x 120mm (including connector)
Weight	<0.3 kg in air
Housing & Bulkhead:	Titanium
Transducer Window:	Titanium
Sensor Legs:	Carbon Composite
Reflector Plate:	Titanium.

### Ordering:

ultraSV	06520550
Note:	All systems supplied with a manual no cables are supplied contact Valeport for options

