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.

Product Details
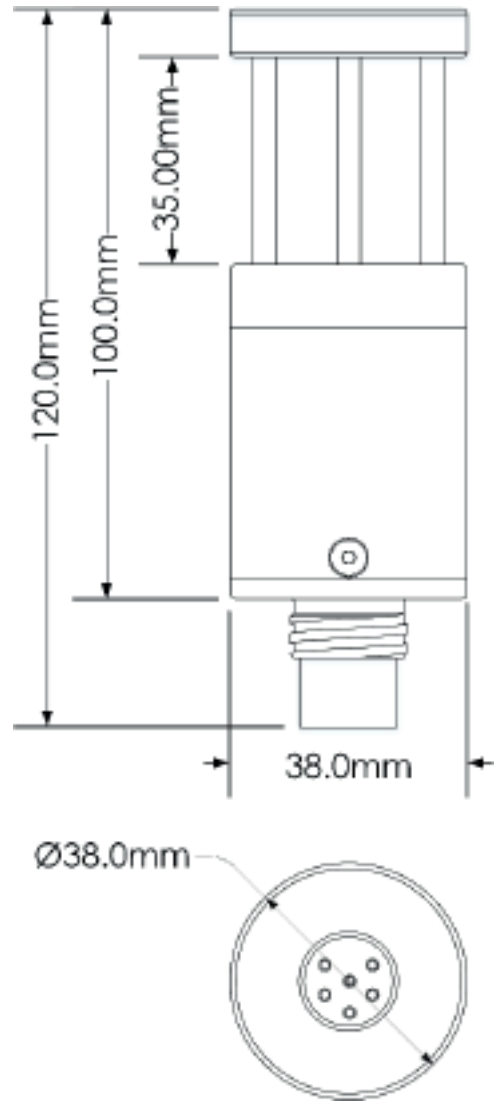
SOUND SPEED

VALEPORT TERMINAL SOFTWARE

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 - 300 Hz

Electrical

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

Communications

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

Physical

Depth Rating	200m
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 -TTL- F (Female Connector) 06520550-TTL-M (Male Connector) 06520550-RS485
Note	All systems supplied with a manual no cables are supplied. Contact Valeport for options

VALEPORT