



ultraSV



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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
Acoustic Frequency:	2.5 MHz
Sample Duration:	~30 µs @ 1500 m/s
Sample Rate:	Up to 300 Hz

Electrical:

Voltage:	5 VDC Isolated
Power:	< 250mW
Connector:	Subconn MCBH6F
Comms:	3.3V Serial TTL

Physical:

Depth Rating:	6000m
Weight:	~300g (in Air)
Housing & Bulkhead:	Titanium
Transducer Window:	Titanium
Sensor Legs:	Carbon Composite
Reflector Plate:	Titanium.

Ordering:

All systems supplied with operating manual and carry case

Available Q3 2014



Dimensions (mm)

