miniSVS - still the most accurate sound velocity sensor in the world. Nothing else comes close.

Sound Velocity Measurement
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.

Range: 1375 - 1900m/s
Resolution: 0.001m/s
Accuracy: 100mm
Random noise (point to point) ±0.002m/s
Max systematic calibration error ±0.013m/s
Max systematic clock error ±0.002m/s
Total max theoretical error ±0.017m/s
50mm
Total max theoretical error ±0.019m/s
25mm
Total max theoretical error ±0.020m/s

Acoustic Frequency: 2.5MHz
Sample Rate: Selectable, dependent on configuration

SV: Choose from mm/s (1510123), m/s to 3 decimal places (1510.123), or m/s to 2 decimal places (1510.12)
Pressure: If fitted, pressure is always output in dBar with 5 digits, with a decimal point, including leading zeroes if necessary. Position of the point is dependent on sensor range, e.g. 50dBar 47.123
Temperature: If fitted, temperature is output as a 5 digit number with 3 decimal places and leading zeroes, signed if negative, e.g. 21.456, 02.298, -03.174

Physical
Please refer to drawing on reverse for detailed dimensions.

Depth Rating: 6000m (Titanium), 500m (acetal)
Weight: 1kg (housed type)
Housing & Bulkhead: Titanium or acetal, as selected
Transducer Window: Polycarbonate
Sensor Legs: Carbon Composite
Reflector Plate: Titanium.

Ordering
All systems supplied with operating manual and carry case. OEM units come with a test lead, housed units with a 0.5m pigtail.

Datasheet Reference: miniSVS version 2A, Feb 2011