The Valeport Altimeter delivers a new approach to the problem of underwater positioning. State of the art signal processing offers unrivalled range and performance from a 500kHz transducer. Millimetre precision, 0.1m – 100m range, RS232/RS485/0-5V & 0-10V analogue outputs with a wide range power supply address the needs of the ROV, AUV and Hydrographic community in a compact, robust package.

The option of integrating a high accuracy pressure sensor (0.01%) as used in the MiniIPS offers an unbeatable package for your underwater positioning requirements.

OEM options are also available – please contact Valeport for details.

**Sensors**

**Acoustic**

State of the art signal processing technology provides stable, repeatable readings while allowing the range to be extended to unrivalled distances for a 500kHz altimeter.

- **Type:** 500 kHz broadband transducer
- **Range:** 0.1m – 100m
- **Resolution:** 1mm
- **Beam Angle:** ±3°

**Pressure**

The optional pressure sensor fitted to the Altimeter is a temperature compensated piezo-resistive sensor, which delivers the performance previously only available from a resonant quartz sensor at a more cost-effective price.

- **Type:** Temperature compensated piezo-resistive
- **Range:** 10, 30, 100, 300 or 600 Bar
- **Accuracy:** ±0.01% FS
- **Resolution:** 0.001% FS

**Data Acquisition**

- **Sampling:** Continuous or data on demand (by command/TTL)
- **Data Rate:** 1, 2, 4Hz and continuous

**Physical**

- **Housing:** Titanium (6000m rated)
- **Weight:** standard unit: ≤1kg in air
  - with pressure: ≤1.8kg in air
- **Connector:** SubConn MCBH10F
- **Titanium**
- **Shipping:** 36 x 29 x 16cm
  - ≤3kg

**Communications**

- **Digital Output:** RS232 & RS485 fitted as standard
- **Protocol:** 4800 to 115200 baud, (8,1,N)
- **Format:** User defined output formatting
- **Analogue output:** 0-5/10V fitted as standard

**Power Requirements**

- **Input:** 9 – 28V DC
- **Power:** <125 mA @ 12V

**Ordering**

- 0430003 VA500 Altimeter, in Titanium
- 0430004 VA500P Altimeter with 0.01% FS pressure sensor, in Titanium
- 0430005 VA500RA Altimeter Right Angled sensor in Titanium
- 0430006 VA500RAP Altimeter with 0.01% FS pressure sensor Right Angled sensor, in Titanium

All supplied with 50cm pigtail, operation manual and transit case.