



## Altimeter



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.



### 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:*  $\pm 3^\circ$

#### 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:*  $\pm 0.01\%$  FS  
*Resolution:* 0.001% FS

### Data Acquisition

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

### Physical

*Housing:* Titanium (6000m rated)  
*Size:* 49mm max  $\varnothing$   
 47mm main body  $\varnothing$   
 195mm length (including connector)  
 225mm length with pressure fitted  
*Weight:* <1kg (air)  
*Connector:* Subconn MCBH10F (titanium)

OEM and alternative configurations are available on request.

### Communications

*Digital Output:* RS232 & RS485 fitted as standard  
*Protocol:* 4800 to 115200 baud, (8,1,N)  
*Format:* User defined out put formatting

*Analogue output:* 0-5/10V fitted as standard

### Power Requirements

*Input:* 9 - 28vDC  
*Power:* >125 mA @ 12V

### Ordering

0430003 VA500 500kHz altimeter, titanium housed. Supplied with 50cm pigtail interface lead, operation manual and transit case

0430004 VA500P 500kHz altimeter with pressure, titanium housed. Supplied with 50cm pigtail interface lead, operation manual and transit case