



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:	±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 continuous,

Physical

Housing:	Titanium (6000m rated)
Size:	49mm max Ø 47mm main body Ø 195mm length (including connector) 225mm length with pressure fitted
Weight:	<1kg (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 out put formatting

Analogue output:	0-5/10V fitted as standard
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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 0.01% accuracy pressure sensor, titanium housed. Supplied with 50cm pigtail interface lead, operation manual and transit case
0430005	VA500RA 500kHz altimeter with titanium housed right angled sensor. Supplied with 50cm pigtail interface lead, operation manual and transit case
0430006	VA500RAP 500kHz altimeter with 0.01% accuracy pressure sensor, titanium housed right angled sensor. Supplied with 50cm pigtail interface lead, operation manual and transit case