



# VA500 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. Millimetric 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, Underwater construction and Hydrographic community 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.

## DATA SHEET

### Product Details



**BATHYMETRY**



**METROLOGY & POSITIONING**



**VALEPORT TERMINAL SOFTWARE**

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## 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** 500kHz 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** 10,20,30,50,100,200,300,400 and 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 and continuous

## 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

## Software

Supplied with DataLog X2 software for instrument setup and data display. DataLog X2 is licence free

## Power Requirements

**Input** 9 – 28V DC

**Power** <125 mA @ 12V

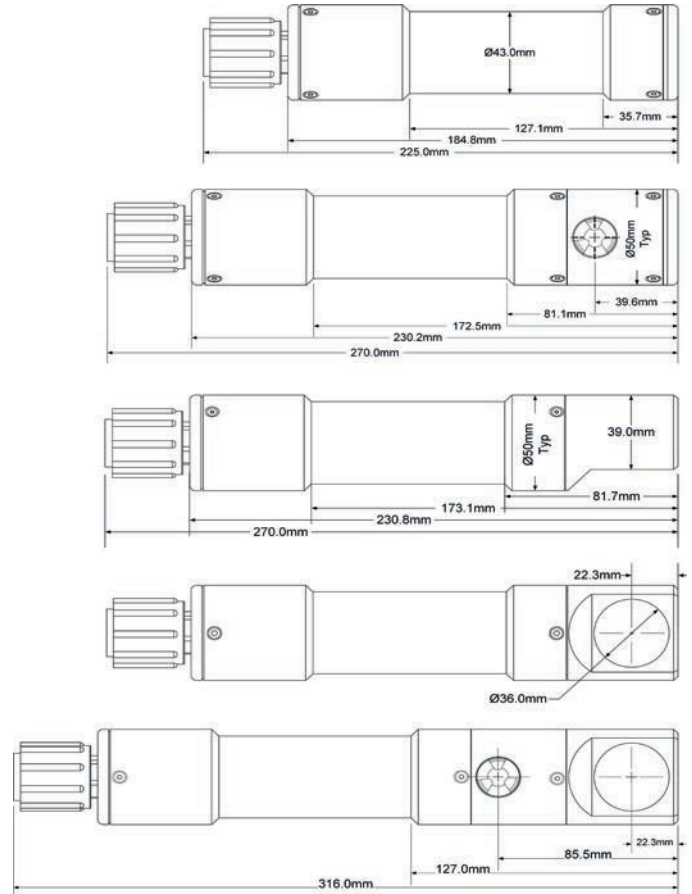
## Physical

**Housing** Titanium (6000m rated)

**Weight** standard unit: <1kg in air  
with pressure: <1.5kg in air

**Connector** SubConn MCBH10F Titanium

**Shipping** 36 x 29 x 16cm <3Kg



## 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 Right Angled sensor, in Titanium with 0.01% FS pressure sensor

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

## Datasheet Reference: VA500 Altimeter | March 2021

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