



DATA SHEET

Product Details



BATHYMETRY



METROLOGY &
POSITIONING



VALEPORT TERMINAL
SOFTWARE

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.

Valeport Limited
St. Peter's Quay, Totnes,
Devon TQ9 5EW United Kingdom

Telephone: +44 (0) 1803 869292
Email: sales@valeport.co.uk
www.valeport.co.uk



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

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

Communications

Digital Output RS232 & RS485 fitted as standard

Protocol 4800 to 115200 baud, (8,1,N)

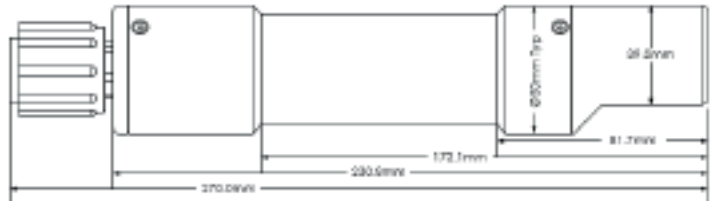
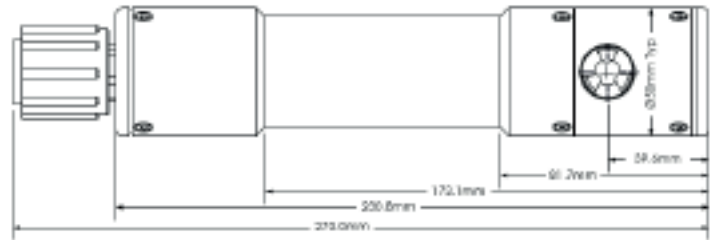
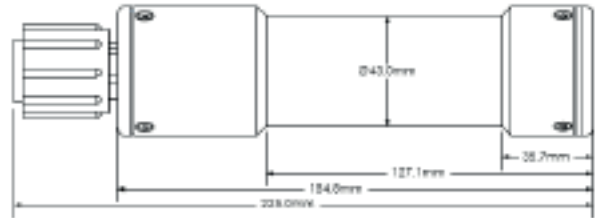
Format User defined output formatting

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 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 | April 2020

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