

Instrument Serial Number	49898
Sensor Type	500kHz Neptune
Altimeter Range (m)	100m
Certificate Number	41409

Stage 1

Test the assembled altimeter in a body of water to ensure a signal is recieved at the minimum range. Taking direct readings from the unit immerse the head till it is roughly 0.1m from the bottom, readings should come through - if not then the signal is being saturated and there is a problem

To inhibit spurious readings set using:

#226;40

	Pass/Fail
Bench Test Min Range <0.1m	Pass

Stage 2

Using a mini SVS or similar, measure the average sound velocity for the water in the tow tank and input the value in the cell below.

Enter the SOS	1483.968
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Input SOS value to the altimeter using:

#830;1483.9680

Stage 3

Fit the altimeter into the calibration fixture and lower the assembly into the tank till it is about 0.5m down facing the far end of the tow tank and clamp in place. Using the distance markers on the wall align the front edge of the trolley with the datum line to set the front of the altimeter at stated distance from the wall.

To determine the Range Offset		
Distance m	Measured Range m	Measured Offset m
1	1.022	-0.022

Stage 4: Enter the Offset Correction

#828;-0.0220

Stage 5 - Range Check after Offset Correction

Distance m	Measured Range m	Measured Offset m	Pass/Fail
1	0.997	0.003	Pass
5	5.002	-0.002	Pass

Stage 6: Reset the SOS

#830;1500

Stage 7: Reset maximum range to 105m	Stage 8: Reset spurious range
#823;105 (500kHz units)	#226;0

Calibrated by:	J.Harper	Date:	31/03/2015
			



This document certifies that the instrument detailed below has been calibrated according to Valeport Limited's Standard Procedures, using equipment with calibrations traceable to UKAS or National Standards.

Calibration Certificate Number: 41409

Instrument Type: Altimeter

Instrument Serial Number: 49898

Calibrated By: L.Bicknell

Date: 30/03/2015

Signed:

A handwritten signature in black ink, appearing to be 'LB', is enclosed in a rectangular box.

Full details of the results from the calibration procedure applied to each fitted sensor are available, on request, via email. This summary certificate should be kept with the instrument.



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Altimeter Build and Calibration Record

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Instrument type	Altimeter
Serial number	49898
Baud rate set ex factory	115200

Calibration History:	Certificate	Date
	41409	30/03/2015

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