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

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.

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F-tth- COC	1/02 060
IEnter the SOS	1.483.968
	1-00.000

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 C	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 th	e SOS
#830;1500	

Stage 7: Reset m	aximum 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

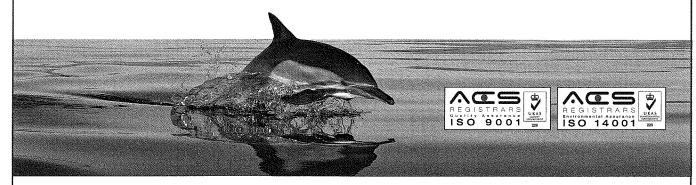
Date:

30/03/2015

Signed:

1/5

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

Calibration History:	Certificate	Date
	41409	30/03/2015
	7	

System	Or	igina	l Manufac	ture		Modification Modification					Modification					
Components	Part (Blank=Not Fitted)	lss	Serial Number	Range / Firmware	Part (Blank=Not Fitted)	lss	Serial Number	Range i Firmware	Part (Blank=Not Fitted)	iss	Serial Number	Range / Firmware	Part (Blank=Not Fitted)	lss	Serial Number	Range / Firmware
PSU board	0430502	С	109419													
Micro board	0430501	С	111648	ACTEL 0430707												
				ATMEL 0430704A12											100	
Transducer Assembly	500kHz Neptune		29792	100m												
Pressure sensor	PAA - 10LX		N/A	N/A												
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