

Altimeter Build and Calibration Record

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Instrument type	Altimeter
Serial number	76740
Baud rate set ex factory	9600

Calibration History:	Certificate	Date
	66415	06/04/2021

[illegible]

Instrument Serial Number	76740
Sensor Type	500kHz
Altimeter Range (m)	100m
Certificate Number	66415

Stage 1

Test the assembled altimeter in a body of water to ensure a signal is received 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	1481.984
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Input SOS value to the altimeter using: #830;1481.9840

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	1.018	-0.018

Stage 4: Enter the Offset Correction

#828;-0.0180

Stage 5 - Range Check after Offset Correction			
Distance m	Measured Range m	Measured Offset m	Pass/Fail
1	1	0	Pass
5	5	0	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:	R Musgrove	Date:	06/04/2021
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