



Sea-Bird Electronics, Inc.
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SBE Pressure Test Certificate

Test Date: 9/12/2012 Description SBE-38 Digital Thermometer

Job Number: _____ Customer Name _____

SBE Sensor Information:

Model Number: 38
Serial Number: 0701

Pressure Sensor Information:

Sensor Type: None
Sensor Serial Number: None
Sensor Rating: 0

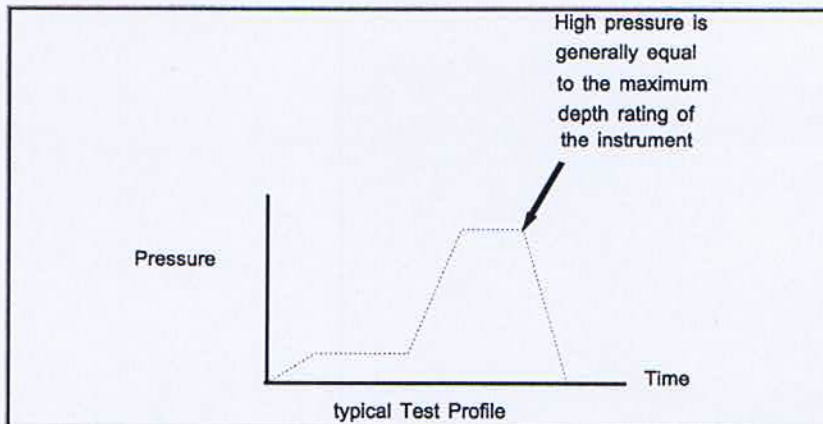
Pressure Test Protocol:

Low Pressure Test: 44 PSI Held For 15 Minutes

High Pressure Test: 10000 PSI Held For 15 Minutes

Passed Test:

Tested By: VG



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13431 NE 20th Street, Bellevue, WA 98005-2010 USA

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SENSOR SERIAL NUMBER: 0701
CALIBRATION DATE: 11-Oct-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.050766e-005
a1 = 2.738465e-004
a2 = -2.411317e-006
a3 = 1.522687e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	701465.3	-1.50001	-0.00001
0.99990	625107.4	0.99994	0.00004
4.50000	533527.8	4.49996	-0.00004
8.00000	456888.0	7.99997	-0.00003
11.50000	392527.4	11.50001	0.00001
15.00000	338297.4	15.00003	0.00003
18.50000	292453.4	18.50003	0.00003
22.00000	253575.2	21.99999	-0.00001
25.50000	220501.5	25.49999	-0.00001
29.00000	192281.4	28.99993	-0.00007
32.50000	168130.6	32.50005	0.00005

Temperature ITS-90 = $1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

