Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 27-Jun-12

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 4713

COEFFICIENTS:

PA0 =	1.351285e-001	PTCA0 =	7.323934e+001
PA1 =	2.416039e-002	PTCA1 =	3.795348e-001
PA2 =	1.040167e-009	PTCA2 =	-6.150259e-003
PTHA0 =	-9.286227e+001	PTCB0 =	2.504188e+001
PTHA1 =	4.437171e-002	PTCB1 =	1.175000e-003
PTHA2 =	-2.514907e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.63	672.1	2665.0	14.45	-0.04
104.87	4416.1	2666.0	104.83	-0.01
204.89	8559.2	2664.0	204.87	-0.00
304.90	12699.4	2663.0	304.88	-0.00
404.88	16837.9	2663.0	404.89	0.00
504.88	20973.8	2661.0	504.87	-0.00
404.90	16838.7	2661.0	404.91	0.00
304.91	12701.3	2660.0	304.93	0.00
204.87	8561.7	2658.0	204.94	0.01
104.92	4416.9	2658.0	104.85	-0.01
14.63	672.1	1659.0	14.86	0.05

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	2083.60	677.40
4.50	2222.20	679.20
11.50	2384.00	681.27
18.50	2546.60	682.78
25.50	2709.10	683.63
32.50	2872.10	683.41

TEMP(ITS90)	SPAN(mV)
-5.00	25.04
35.00	25.08

y = thermistor output; $t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

x = pressure output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

pressure (psia) = $PA0 + PA1 * n + PA2 * n^2$