Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1802
CALIBRATION DATE: 27-Jun-12

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 6473

COEFFICIENTS:

PA0 =	8.566431e-002	PTCA0 =	-5.362649e+002
PA1 =	2.402934e-002	PTCA1 =	3.488142e-001
PA2 =	1.615846e-009	PTCA2 =	-8.398006e-003
PTHA0 =	-8.938726e+001	PTCB0 =	2.429538e+001
PTHA1 =	4.648126e-002	PTCB1 =	-1.525000e-003
PTHA2 =	-5.170020e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.63	72.1	2503.0	14.64	0.00
104.87	3819.4	2505.0	104.85	-0.00
204.89	7972.0	2503.0	204.87	-0.00
304.90	12121.1	2500.0	304.86	-0.01
404.88	16268.7	2499.0	404.87	-0.00
504.88	20414.9	2488.0	504.88	0.00
404.90	16271.2	2488.0	404.91	0.00
304.91	12124.5	2487.0	304.93	0.00
204.87	7975.4	2486.0	204.94	0.01
104.92	3821.3	2487.0	104.89	-0.01
14.63	72.0	2489.0	14.64	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1932.40	79.60
4.50	2067.50	81.40
11.50	2225.50	83.07
18.50	2384.60	83.68
25.50	2543.70	83.43
32.50	2703.50	82.51

TEMP(ITS90)	SPAN(mV)
-5.00	24.30
35.00	24.24

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) = $PA0 + PA1 * n + PA2 * n^2$