Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0990
CALIBRATION DATE: 10-Feb-14

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 1256

COEFFICIENTS:

PA0 =	3.696081e-002	PTCA0 =	1.717852e+001
PA1 =	2.405998e-002	PTCA1 =	2.263842e-001
PA2 =	1.641531e-009	PTCA2 =	-7.158636e-003
PTHA0 =	-6.601239e+001	PTCB0 =	2.501713e+001
PTHA1 =	4.940159e-002	PTCB1 =	-1.775000e-003
PTHA2 =	6.153553e-009	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.62	624.1	1777.0	14.63	0.00
104.89	4367.8	1781.0	104.87	-0.00
204.90	8514.4	1783.0	204.88	-0.00
304.90	12658.9	1783.0	304.90	-0.00
404.91	16801.2	1784.0	404.92	0.00
504.92	20939.3	1784.0	504.90	-0.00
404.91	16801.3	1783.0	404.92	0.00
304.92	12659.9	1785.0	304.93	0.00
204.91	8515.6	1783.0	204.91	-0.00
104.91	4369.4	1783.0	104.91	-0.00
14.62	624.0	1783.0	14.62	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1305.70	635.10
4.50	1427.00	635.96
11.50	1568.70	636.61
18.50	1710.30	637.11
25.50	1852.00	636.49
32.50	1993.60	634.72

TEMP(ITS90)	SPAN(mV)
-5.00	25.03
35.00	24.95

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