Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1635
CALIBRATION DATE: 07-Dec-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5634

COEFFICIENTS:

PA0 =	-5.009718e-001	PTCA0 =	-5.226189e+002
PA1 =	2.404861e-002	PTCA1 =	-7.714936e-001
PA2 =	1.505416e-009	PTCA2 =	-7.942136e-003
PTHA0 =	-8.774698e+001	PTCB0 =	2.436025e+001
PTHA1 =	4.601948e-002	PTCB1 =	-3.150000e-003
PTHA2 =	-3.838137e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.83	92.5	2433.0	14.84	0.00
105.05	3830.2	2440.0	105.02	-0.01
205.05	7974.1	2441.0	205.04	-0.00
305.06	12115.1	2441.0	305.05	-0.00
405.07	16254.4	2442.0	405.07	0.00
505.07	20390.6	2442.0	505.07	-0.00
405.10	16256.0	2441.0	405.11	0.00
305.10	12117.8	2442.0	305.12	0.00
205.11	7977.2	2442.0	205.12	0.00
105.12	3834.6	2442.0	105.13	0.00
14.83	91.9	2443.0	14.83	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1904.40	127.70
4.50	2039.20	122.86
11.50	2197.00	116.64
18.50	2354.70	109.53
25.50	2513.60	101.63
32.50	2672.40	93.09

TEMP(ITS90)	SPAN(mV)
-5.00	24.38
35.00	24.25

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