Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0992
CALIBRATION DATE: 10-Feb-14

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 1345

COEFFICIENTS:

PA0 =	1.358060e+000	PTCA0 =	-6.690124e-001
PA1 =	2.408374e-002	PTCA1 =	3.526508e+000
PA2 =	1.509177e-009	PTCA2 =	-4.353324e-002
PTHA0 =	-6.214497e+001	PTCB0 =	2.499963e+001
PTHA1 =	5.099375e-002	PTCB1 =	-6.750000e-004
PTHA2 =	-7.108382e-008	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.62	606.3	1652.0	14.63	0.00
104.89	4350.3	1659.0	104.86	-0.01
204.90	8497.2	1661.0	204.87	-0.00
304.90	12642.1	1661.0	304.89	-0.00
404.91	16784.5	1661.0	404.90	-0.00
504.92	20924.7	1662.0	504.90	-0.00
404.91	16786.1	1662.0	404.94	0.00
304.92	12644.2	1662.0	304.94	0.00
204.91	8499.5	1662.0	204.93	0.00
104.91	4352.6	1662.0	104.91	0.00
14.62	606.8	1661.0	14.62	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1191.30	553.30
4.50	1309.10	587.16
11.50	1447.00	600.91
18.50	1585.00	613.71
25.50	1723.00	625.69
32.50	1860.80	637.32

TEMP(ITS90)	SPAN(mV)
-5.00	25.00
35.00	24.98

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