SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1640
CALIBRATION DATE: 19-Jan-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5733

COEFFICIENTS:

PA0 =	8.130880e-002	PTCA0 =	7.584340e+001
PA1 =	2.384120e-002	PTCA1 =	4.282467e-001
PA2 =	1.578677e-009	PTCA2 =	-1.194519e-002
PTHA0 =	-8.783377e+001	PTCB0 =	2.526988e+001
PTHA1 =	4.617520e-002	PTCB1 =	-2.025000e-003
PTHA2 =	-3.807894e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.84	697.5	2471.0	14.85	0.00
105.10	4473.6	2472.0	105.08	-0.00
205.08	8657.3	2471.0	205.10	0.00
305.08	12837.9	2462.0	305.09	0.00
405.10	17016.1	2460.0	405.09	-0.00
505.09	21192.2	2458.0	505.09	-0.00
405.10	17017.0	2457.0	405.11	0.00
305.11	12838.6	2455.0	305.10	-0.00
205.09	8657.9	2454.0	205.10	0.00
105.12	4474.3	2453.0	105.09	-0.01
14.84	697.8	2453.0	14.85	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1899.50	704.50
4.50	2033.60	706.56
11.50	2190.90	708.52
18.50	2348.30	708.85
25.50	2506.20	708.12
32.50	2664.50	706.35

TEMP(ITS90)	SPAN(mV)
-5.00	25.28
35.00	25.20

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