

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1246
 CALIBRATION DATE: 11-Jun-08

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 193467

COEFFICIENTS:

PA0 = 8.045881e-001
 PA1 = 6.014519e-002
 PA2 = 2.321371e-008

PTCA0 = 1.411796e+002
 PTCA1 = 5.724154e-001
 PTCA2 = 2.163245e-003
 PTCB0 = 3.012700e+001
 PTCB1 = -4.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.75	386.5	21.6	14.76	0.00
310.26	5275.0	21.6	309.47	-0.05
606.97	10175.2	21.7	606.00	-0.06
903.69	15063.8	21.6	902.94	-0.05
1200.40	19935.5	21.6	1199.96	-0.03
1497.12	24789.6	21.7	1497.00	-0.01
1200.43	19950.7	21.7	1200.89	0.03
903.66	15092.3	21.7	904.68	0.07
607.00	10210.1	21.7	608.12	0.07
310.40	5292.6	21.8	310.53	0.01
14.74	391.6	21.8	15.06	0.02

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	406.70	0.00	30.13
29.00	405.08	30.00	30.11
24.00	401.64		
18.50	397.64		
15.00	394.35		
4.50	389.74		
1.00	386.34		

$$x = \text{pressure output} - \text{PTCA0} - \text{PTCA1} * t - \text{PTCA2} * t^2$$

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

$$\text{pressure (psia)} = \text{PA0} + \text{PA1} * n + \text{PA2} * n^2$$

Date, Avg Delta P %FS

11-Jun-08 -0.00

