

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3936
 CALIBRATION DATE: 28-Oct-08

SBE 37 PRESSURE CALIBRATION DATA
 10153 psia S/N 7325

COEFFICIENTS:

PA0 = 1.808721e+000
 PA1 = 4.884879e-001
 PA2 = -4.740803e-007

PTCA0 = -1.288236e+001
 PTCA1 = 2.888447e-001
 PTCA2 = -5.045487e-003
 PTCB0 = 2.482850e+001
 PTCB1 = 7.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.73	17.7	19.4	14.93	0.00
1998.47	4095.9	19.5	1998.00	-0.00
3998.91	8243.3	19.5	3998.57	-0.00
5998.91	12424.9	19.5	5999.15	0.00
7999.18	16641.0	19.5	7999.46	0.00
10002.24	20897.7	19.5	10001.96	-0.00
8001.03	16644.3	19.5	8001.02	-0.00
6000.25	12427.8	19.6	6000.51	0.00
3998.27	8242.7	19.6	3998.27	0.00
1998.07	4095.9	19.6	1997.99	-0.00
14.74	17.7	19.6	14.92	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	19.19	-5.00	24.82
29.00	19.37	35.00	24.85
24.00	19.29		
18.50	18.78		
15.00	18.33		
4.50	16.40		
1.00	15.48		

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

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

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

Date, Avg Delta P %FS

● 28-Oct-08 0.00

