

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1244
 CALIBRATION DATE: 10-Jun-09

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 193465

COEFFICIENTS:

PA0 = 4.410314e+000
 PA1 = 6.018325e-002
 PA2 = 2.496755e-008

PTCA0 = -8.331435e+001
 PTCA1 = 3.389650e+000
 PTCA2 = 1.915690e-002
 PTCB0 = 2.983100e+001
 PTCB1 = 2.133333e-003
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.59	162.8	19.5	14.79	0.01
309.13	5034.1	19.5	308.19	-0.06
605.95	9939.1	19.4	604.84	-0.07
902.85	14833.4	19.5	901.97	-0.06
1199.70	19709.7	19.7	1199.16	-0.04
1496.59	24568.3	19.7	1496.52	-0.00
1199.84	19726.1	19.8	1200.13	0.02
902.16	14863.7	19.7	903.75	0.11
605.86	9977.1	20.1	606.93	0.07
309.39	5060.8	20.4	309.55	0.01
14.59	167.2	20.5	14.81	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	228.10	0.00	29.83
29.00	210.60	30.00	29.90
24.00	189.60		
18.50	166.50		
15.00	151.00		
4.50	115.50		
1.00	98.50		

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

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

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

Date, Avg Delta P %FS

10-Jun-09 0.00

