

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1245
 CALIBRATION DATE: 09-Jun-08

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 193466

COEFFICIENTS:

PA0 = 4.248368e+000
 PA1 = 6.017629e-002
 PA2 = 2.166814e-008

PTCA0 = -4.680104e+001
 PTCA1 = 2.936285e+000
 PTCA2 = 2.032459e-002
 PTCB0 = 3.000100e+001
 PTCB1 = 5.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.57	196.8	21.0	14.65	0.01
310.56	5093.7	21.1	309.76	-0.05
607.27	9998.8	21.1	606.43	-0.06
903.79	14885.7	21.1	903.03	-0.05
1200.52	19757.1	21.1	1199.71	-0.05
1497.15	24615.7	21.2	1496.62	-0.04
1200.02	19789.4	21.2	1201.66	0.11
903.71	14914.1	21.2	904.73	0.07
607.13	10015.6	21.1	607.44	0.02
310.56	5113.8	21.2	310.95	0.03
14.56	200.7	21.2	14.84	0.02

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	254.20	0.00	30.00
29.00	239.88	30.00	30.02
24.00	219.86		
18.50	198.95		
15.00	184.34		
4.50	153.82		
1.00	138.61		

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

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

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

Date, Avg Delta P %FS

● 09-Jun-08 -0.00

