

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0816
 CALIBRATION DATE: 09-Jun-09

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 192112

COEFFICIENTS:

PA0 = 4.355942e+000
 PA1 = 5.991862e-002
 PA2 = 2.278665e-008

PTCA0 = 0.000000e+000
 PTCA1 = 4.368260e-001
 PTCA2 = -2.802875e-003
 PTCB0 = 0.000000e+000
 PTCB1 = 0.000000e+000
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.53	178.5	22.9	14.54	0.00
310.92	5096.0	22.9	309.78	-0.08
607.28	10010.6	22.9	605.95	-0.09
903.55	14920.1	23.0	902.90	-0.04
1199.99	19804.2	23.1	1199.41	-0.04
1496.43	24674.0	23.2	1496.13	-0.02
1200.06	19830.6	23.2	1201.01	0.06
903.37	14945.0	23.2	904.41	0.07
607.06	10042.6	23.3	607.87	0.05
310.23	5120.0	23.5	311.21	0.07
14.52	181.9	23.6	14.73	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	195.10		
29.00	194.27		
24.00	192.86		
18.50	191.07		
15.00	189.61		
4.50	186.09		
1.00	184.19		

$$n = \text{instrument output} - (\text{PTCA1} * t - \text{PTCA2} * t^2)$$

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

