

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1246
 CALIBRATION DATE: 08-Dec-06

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 193467

COEFFICIENTS:

PA0 = 8.257590e-001
 PA1 = 6.013960e-002
 PA2 = 2.356166e-008

PTCA0 = 1.436733e+002
 PTCA1 = 5.884241e-001
 PTCA2 = 1.891569e-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
14.49	382.2	21.8	14.35	-0.01
311.61	5297.4	21.9	310.65	-0.06
608.50	10202.5	21.9	607.49	-0.07
905.50	15094.6	21.9	904.66	-0.06
1202.42	19971.1	21.9	1202.01	-0.03
1499.47	24830.3	21.9	1499.42	-0.00
1202.42	19985.3	21.9	1202.88	0.03
905.52	15123.1	21.9	906.39	0.06
608.45	10235.9	21.9	609.51	0.07
311.38	5322.5	22.0	312.16	0.05
14.48	388.4	22.0	14.72	0.02

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	408.50	0.00	30.13
29.00	406.60	30.00	30.11
24.00	403.10		
18.50	399.30		
15.00	396.00		
4.50	391.40		
1.00	387.60		

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

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

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

Date, Avg Delta P %FS

08-Dec-06 0.00

