

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3722
 CALIBRATION DATE: 08-Dec-09

SBE 37 PRESSURE CALIBRATION DATA
 10153 psia S/N 6174

COEFFICIENTS:

PA0 = 2.359821e-001
 PA1 = 4.918021e-001
 PA2 = -4.951380e-007

PTCA0 = -2.128132e+001
 PTCA1 = -5.303071e-002
 PTCA2 = 5.937022e-003
 PTCB0 = 2.458963e+001
 PTCB1 = 9.250000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.71	9.4	14.5	15.08	0.00
2015.28	4094.4	15.3	2014.51	-0.01
4015.54	8215.5	15.4	4014.92	-0.01
6015.75	12372.9	15.7	6015.85	0.00
8016.03	16565.1	15.7	8016.28	0.00
10016.25	20791.5	15.7	10015.44	-0.01
8015.79	16565.9	15.8	8016.63	0.01
6015.50	12373.7	15.9	6016.17	0.01
4015.26	8216.4	16.0	4015.22	-0.00
2015.18	4094.9	16.1	2014.64	-0.01
14.72	10.0	16.4	15.25	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	14.48	-5.00	24.59
29.00	13.51	35.00	24.62
24.00	12.19		
18.50	11.03		
15.00	10.44		
4.50	9.96		
1.00	9.90		

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

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

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

Date, Avg Delta P %FS

08-Dec-09 0.00

