

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0817
 CALIBRATION DATE: 08-Dec-09

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 192113

COEFFICIENTS:

PA0 = -2.013390e-001
 PA1 = 6.010281e-002
 PA2 = 2.177860e-008

PTCA0 = 3.276978e-001
 PTCA1 = -2.373169e-001
 PTCA2 = 1.820571e-003
 PTCB0 = 3.005400e+001
 PTCB1 = -5.666667e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.74	240.7	16.1	14.45	-0.02
315.06	5222.3	16.3	314.55	-0.03
615.01	10171.2	16.3	613.74	-0.08
914.95	15121.4	16.3	914.09	-0.06
1214.92	20055.8	16.3	1214.53	-0.03
1464.99	24155.1	16.4	1464.94	-0.00
1214.89	20070.0	16.4	1215.40	0.03
914.92	15149.2	16.4	915.78	0.06
614.94	10207.4	16.5	615.94	0.07
314.99	5243.2	16.5	315.81	0.05
14.75	248.6	16.8	14.94	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	252.60	0.00	30.05
29.00	253.44	30.00	30.04
24.00	253.91		
18.50	254.84		
15.00	255.10		
4.50	257.86		
1.00	258.12		

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

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

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

Date, Avg Delta P %FS

08-Dec-09 0.00

