

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3318
 CALIBRATION DATE: 11-Dec-08

SBE 37 PRESSURE CALIBRATION DATA
 508 psia S/N 3683

COEFFICIENTS:

PA0 = 5.277201e-002
 PA1 = 2.401309e-002
 PA2 = 1.616945e-009

PTCA0 = 3.509437e+000
 PTCA1 = 3.994686e-002
 PTCA2 = 4.956478e-003
 PTCB0 = 2.502287e+001
 PTCB1 = -1.225000e-003
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.86	622.5	17.4	14.88	0.00
105.10	4374.5	17.9	105.08	-0.00
205.08	8531.0	17.9	205.07	-0.00
305.08	12685.4	17.9	305.06	-0.01
405.06	16837.4	17.9	405.04	-0.00
505.04	20986.9	18.0	505.03	-0.00
405.05	16838.8	18.0	405.08	0.01
305.08	12687.5	18.0	305.11	0.01
205.08	8533.6	18.0	205.13	0.01
105.14	4375.0	18.0	105.09	-0.01
14.86	622.4	18.1	14.87	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	644.67	-5.00	25.03
29.00	644.17	35.00	24.98
24.00	642.94		
18.50	641.50		
15.00	639.56		
4.50	638.30		
1.00	639.20		

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

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

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

Date, Avg Delta P %FS

11-Dec-08 0.00

