

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3532
 CALIBRATION DATE: 17-Jul-07

SBE 37 PRESSURE CALIBRATION DATA
 508 psia S/N 5293

COEFFICIENTS:

PA0 = -7.018668e-002
 PA1 = 2.408835e-002
 PA2 = 1.754479e-009

PTCA0 = -5.326817e+002
 PTCA1 = -2.693418e-003
 PTCA2 = -4.904281e-003
 PTCB0 = 2.433225e+001
 PTCB1 = 4.500000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.56	71.4	24.1	14.55	-0.00
104.84	3820.8	24.2	104.86	0.00
204.85	7970.1	24.1	204.85	0.00
304.84	12117.1	24.0	304.86	0.00
404.85	16260.3	23.6	404.83	-0.00
504.83	20402.3	23.7	504.83	0.00
404.84	16261.5	23.6	404.86	0.00
304.85	12116.7	23.7	304.85	-0.00
204.85	7968.7	23.6	204.82	-0.01
104.85	3821.2	23.7	104.86	0.00
14.56	72.3	23.7	14.56	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	105.80	-5.00	24.33
29.00	106.50	35.00	24.35
24.00	108.20		
18.50	109.10		
15.00	109.80		
4.50	111.00		
1.00	110.80		

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

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

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

Date, Avg Delta P %FS

17-Jul-07 -0.00

