

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4590
 CALIBRATION DATE: 13-Jul-09

SBE 37 PRESSURE CALIBRATION DATA
 508 psia S/N 9315

COEFFICIENTS:

PA0 = 2.657274e-002
 PA1 = 2.409795e-002
 PA2 = 3.037520e-009

PTCA0 = 2.637732e+001
 PTCA1 = 2.379979e-001
 PTCA2 = -8.893164e-003
 PTCB0 = 2.502950e+001
 PTCB1 = 1.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.71	637.0	20.8	14.71	0.00
104.96	4379.8	21.0	104.96	-0.00
204.97	8523.0	21.2	204.95	-0.00
304.96	12661.9	21.2	304.95	-0.00
404.96	16796.5	21.3	404.95	-0.00
504.96	20927.7	21.3	504.96	0.00
404.96	16797.3	21.3	404.97	0.00
304.95	12662.7	21.3	304.97	0.00
204.97	8523.4	21.3	204.96	-0.00
104.97	4380.7	21.3	104.98	0.00
14.71	636.7	21.4	14.71	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	661.46	-5.00	25.03
29.00	662.75	35.00	25.03
24.00	663.81		
18.50	664.66		
15.00	664.71		
4.50	663.97		
1.00	663.56		

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

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

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

Date, Avg Delta P %FS

13-Jul-09 0.00

