

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3762

CALIBRATION DATE: 04-Feb-14

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 5751

COEFFICIENTS:

PA0 = 2.659704e-001

PA1 = 6.730937e-002

PA2 = -2.408264e-009

PTCA0 = -1.896087e+002

PTCA1 = 1.338081e-001

PTCA2 = 2.534916e-003

PTCB0 = 2.540563e+001

PTCB1 = 1.250000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.73	28.7	21.1	14.69	-0.00
301.59	4291.0	21.1	301.51	-0.01
588.61	8557.1	21.1	588.49	-0.01
875.37	12823.5	21.0	875.41	0.00
1162.49	17093.6	21.0	1162.48	-0.00
1449.41	21363.0	21.0	1449.43	0.00
875.48	12824.2	21.0	875.45	-0.00
588.41	8556.0	21.0	588.42	0.00
301.45	4293.8	21.0	301.70	0.02
14.74	29.0	21.0	14.71	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	44.12	-5.00	25.41
29.00	43.35	35.00	25.41
24.00	42.10		
18.50	40.60		
15.00	39.57		
4.50	37.96		
1.00	37.30		

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

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

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

Date, Avg Delta P %FS

04-Feb-14 -0.00

