

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4078

CALIBRATION DATE: 08-Dec-11

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 7440

COEFFICIENTS:

PA0 = 1.666039e-001

PA1 = 6.860723e-002

PA2 = -4.247365e-009

PTCA0 = -2.146200e+002

PTCA1 = 1.536351e-001

PTCA2 = -1.965806e-003

PTCB0 = 2.481450e+001

PTCB1 = 1.000000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.82	1.7	22.0	14.84	0.00
315.18	4380.4	22.0	315.13	-0.00
615.21	8757.4	22.0	615.15	-0.00
915.22	13136.9	22.1	915.17	-0.00
1215.29	17519.3	22.1	1215.23	-0.00
1465.29	21172.8	22.1	1465.26	-0.00
1215.19	17519.9	22.0	1215.27	0.01
915.14	13137.8	22.1	915.23	0.01
615.14	8757.7	22.1	615.17	0.00
315.16	4380.8	22.0	315.16	0.00
14.82	1.5	22.2	14.82	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	11.88	-5.00	24.81
29.00	12.01	35.00	24.82
24.00	11.76		
18.50	11.11		
15.00	10.90		
4.50	9.81		
1.00	9.20		

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

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

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

Date, Avg Delta P %FS

08-Dec-11 0.00

