

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3767

CALIBRATION DATE: 07-Dec-11

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 5756

COEFFICIENTS:

PA0 = 4.694751e-001

PA1 = 6.918117e-002

PA2 = -3.324061e-009

PTCA0 = -1.992571e+002

PTCA1 = 2.841997e-001

PTCA2 = 7.679875e-004

PTCB0 = 2.469425e+001

PTCB1 = -5.500000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.82	15.1	22.5	14.84	0.00
315.11	4354.0	22.6	315.09	-0.00
615.11	8691.0	22.5	615.08	-0.00
915.12	13030.1	22.5	915.10	-0.00
1215.14	17371.3	22.5	1215.13	-0.00
1465.19	20990.3	22.5	1465.16	-0.00
1215.13	17372.0	22.5	1215.18	0.00
915.09	13030.4	22.5	915.12	0.00
615.10	8691.4	22.5	615.11	0.00
315.13	4354.5	22.6	315.12	-0.00
14.82	14.9	22.7	14.82	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	29.50	-5.00	24.70
29.00	28.33	35.00	24.68
24.00	26.82		
18.50	24.96		
15.00	23.80		
4.50	20.89		
1.00	19.67		

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

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

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

Date, Avg Delta P %FS

07-Dec-11 0.00

