

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2336

CALIBRATION DATE: 08-Dec-11

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 1453

COEFFICIENTS:

PA0 = 3.775819e-001

PA1 = 6.902142e-002

PA2 = -4.636324e-009

PTCA0 = 5.684794e+001

PTCA1 = 2.896374e-001

PTCA2 = -1.768147e-003

PTCB0 = 2.507525e+001

PTCB1 = 6.500000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.82	272.0	21.8	14.84	0.00
315.18	4626.8	21.9	315.15	-0.00
615.21	8979.9	21.9	615.16	-0.00
915.22	13335.9	22.0	915.20	-0.00
1215.29	17694.6	22.0	1215.25	-0.00
1465.29	21328.4	22.0	1465.26	-0.00
1215.19	17694.7	21.9	1215.26	0.01
915.14	13336.0	21.9	915.21	0.00
615.14	8979.8	21.9	615.16	0.00
315.16	4626.8	21.9	315.15	-0.00
14.82	271.8	22.1	14.82	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	283.13	-5.00	25.07
29.00	282.48	35.00	25.10
24.00	281.62		
18.50	280.37		
15.00	279.46		
4.50	276.88		
1.00	275.89		

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

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

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

Date, Avg Delta P %FS

08-Dec-11 -0.00

