

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1244

CALIBRATION DATE: 16-Apr-12

SBE 37 PRESSURE CALIBRATION DATA

1500 psia S/N 193465

COEFFICIENTS:

PA0 = 5.287867e+000

PA1 = 6.018015e-002

PA2 = 2.657531e-008

PTCA0 = -6.730461e+001

PTCA1 = 3.376272e+000

PTCA2 = 1.878616e-002

PTCB0 = 2.983100e+001

PTCB1 = 2.133333e-003

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.60	169.2	23.1	14.21	-0.03
314.86	5160.0	22.9	314.82	-0.00
614.94	10110.0	22.7	614.28	-0.04
914.96	15047.2	22.7	914.20	-0.05
1214.98	19969.4	22.9	1214.43	-0.04
1515.03	24877.4	22.8	1515.18	0.01
1214.95	19983.9	22.8	1215.35	0.03
914.95	15069.0	22.8	915.50	0.04
614.90	10131.2	22.7	615.56	0.04
314.89	5168.8	22.8	315.38	0.03
14.60	177.4	22.9	14.75	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	228.00	0.00	29.83
29.00	211.03	30.00	29.90
24.00	189.37		
18.50	165.83		
15.00	152.33		
4.50	116.81		
1.00	98.62		

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

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

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

Date, Avg Delta P %FS

16-Apr-12 0.00

