

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 28-Oct-13

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193472

COEFFICIENTS:

PA0 = 5.336556e-002
PA1 = 6.007671e-002
PA2 = 2.295332e-008

PTCA0 = -1.453474e+002
PTCA1 = 6.496681e-002
PTCA2 = -1.138108e-003
PTCB0 = 2.980200e+001
PTCB1 = -0.000000e+000
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.57	95.6	22.7	14.48	-0.01
314.90	5080.5	22.6	314.58	-0.02
614.98	10032.8	22.5	613.85	-0.08
914.94	14984.5	22.5	914.21	-0.05
1214.97	19917.8	22.5	1214.57	-0.03
1514.97	24833.5	22.3	1514.97	-0.00
1214.93	19930.8	22.4	1215.36	0.03
914.91	15008.9	22.3	915.69	0.05
614.94	10065.1	22.3	615.80	0.06
314.92	5096.6	22.3	315.55	0.04
14.57	97.0	22.4	14.56	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	107.50	0.00	29.80
29.00	106.91	30.00	29.80
24.00	106.72		
18.50	106.85		
15.00	107.44		
4.50	106.78		
1.00	105.98		

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

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

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

Date, Avg Delta P %FS

28-Oct-13 0.00

