

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0817

CALIBRATION DATE: 16-Apr-12

SBE 37 PRESSURE CALIBRATION DATA

1500 psia S/N 192113

COEFFICIENTS:

PA0 = -1.844208e-001

PA1 = 6.006071e-002

PA2 = 2.218859e-008

PTCA0 = 3.998504e-001

PTCA1 = -1.597212e-001

PTCA2 = 1.013397e-003

PTCB0 = 3.005400e+001

PTCB1 = -5.666667e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.55	235.8	22.4	14.15	-0.03
314.81	5230.3	22.5	314.85	0.00
614.89	10182.1	22.4	614.08	-0.05
914.86	15126.0	22.4	913.92	-0.06
1214.86	20060.5	22.5	1214.28	-0.04
1514.89	24984.2	22.5	1515.05	0.01
1214.86	20077.6	22.5	1215.32	0.03
914.83	15152.1	22.5	915.51	0.05
614.85	10207.4	22.5	615.62	0.05
314.81	5238.5	22.5	315.35	0.04
14.56	244.3	22.4	14.66	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	250.90	0.00	30.05
29.00	251.10	30.00	30.04
24.00	251.67		
18.50	252.48		
15.00	252.79		
4.50	254.15		
1.00	254.88		

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

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

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

Date, Avg Delta P %FS

16-Apr-12 0.00

