

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3722

CALIBRATION DATE: 28-Oct-13

SBE 37 PRESSURE CALIBRATION DATA

10153 psia S/N 6174

COEFFICIENTS:

PA0 = 8.194651e-001

PA1 = 4.917159e-001

PA2 = -4.919342e-007

PTCA0 = -2.036011e+001

PTCA1 = -4.528821e-002

PTCA2 = 5.628965e-003

PTCB0 = 2.458963e+001

PTCB1 = 9.250000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.57	10.0	21.7	14.92	0.00
2001.12	4067.8	21.7	2000.37	-0.01
3988.02	8162.8	21.7	3987.63	-0.00
5975.05	12292.8	21.7	5975.20	0.00
7962.03	16457.6	21.7	7962.54	0.01
9949.58	20656.3	21.7	9948.81	-0.01
7962.06	16457.7	21.7	7962.59	0.01
5974.93	12293.3	21.7	5975.44	0.00
3987.95	8163.2	21.7	3987.83	-0.00
2001.07	4068.1	21.7	2000.52	-0.01
14.57	10.4	21.8	15.10	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	13.99	-5.00	24.59
29.00	13.02	35.00	24.62
24.00	11.75		
18.50	10.61		
15.00	10.10		
4.50	9.53		
1.00	9.48		

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

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

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

Date, Avg Delta P %FS

28-Oct-13 -0.00

