

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3777

CALIBRATION DATE: 28-Oct-13

SBE 37 PRESSURE CALIBRATION DATA

10153 psia S/N 6172

COEFFICIENTS:

PA0 = 2.549744e+000

PA1 = 4.853483e-001

PA2 = -4.913955e-007

PTCA0 = -1.272479e+001

PTCA1 = 4.727326e-002

PTCA2 = 8.879625e-003

PTCB0 = 2.494788e+001

PTCB1 = -6.250000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.57	17.9	21.8	14.87	0.00
2001.12	4123.4	21.6	2000.19	-0.01
3988.02	8267.6	21.7	3987.36	-0.01
5975.05	12448.8	21.7	5975.16	0.00
7962.03	16665.7	21.6	7962.52	0.00
9949.58	20917.7	21.7	9948.69	-0.01
7962.06	16666.3	21.7	7962.80	0.01
5974.93	12449.6	21.7	5975.54	0.01
3987.95	8268.8	21.6	3987.95	-0.00
2001.07	4124.3	21.6	2000.62	-0.00
14.57	18.6	21.7	15.23	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	24.58	-5.00	24.95
29.00	22.58	35.00	24.93
24.00	19.97		
18.50	17.61		
15.00	16.34		
4.50	14.17		
1.00	13.71		

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

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

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

Date, Avg Delta P %FS

28-Oct-13 0.00

