

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3531

CALIBRATION DATE: 30-Sep-15

SBE 37 PRESSURE CALIBRATION DATA

FSR: 508 psia S/N 4979

COEFFICIENTS:

PA0 = -1.829735e-002

PA1 = 2.412447e-002

PA2 = 7.753440e-010

PTCA0 = 9.156874e+001

PTCA1 = 8.265939e-002

PTCA2 = -5.054996e-003

PTCB0 = 2.512800e+001

PTCB1 = -1.400000e-003

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.62	697.4	22.9	14.63	0.00
104.89	4432.2	23.0	104.86	-0.01
204.89	8571.1	23.0	204.88	-0.00
304.89	12708.8	23.0	304.90	0.00
404.89	16844.7	23.0	404.90	0.00
504.90	20978.9	23.0	504.88	-0.00
404.90	16845.6	23.1	404.92	0.00
304.91	12709.7	23.1	304.92	0.00
204.90	8571.9	23.1	204.90	0.00
104.90	4432.8	23.1	104.88	-0.00
14.62	697.3	23.1	14.63	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT
32.50	724.78
29.00	725.61
24.00	726.64
18.50	727.33
15.00	727.46
4.50	727.70
1.00	727.60
TEMP (ITS90)	SPAN (mV)
-5.00	25.14
35.00	25.08

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

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

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

