

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3777

CALIBRATION DATE: 17-Sep-15

SBE 37 PRESSURE CALIBRATION DATA

FSR: 10153 psia S/N 6172

COEFFICIENTS:

PA0 = 2.804929e+000

PA1 = 4.853681e-001

PA2 = -4.897578e-007

PTCA0 = -1.251083e+001

PTCA1 = 5.669534e-002

PTCA2 = 8.799463e-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
14.56	18.1	22.6	14.87	0.00
2001.06	4123.2	22.7	2000.10	-0.01
3988.05	8267.3	22.8	3987.44	-0.01
5975.07	12448.0	22.8	5975.29	0.00
7962.21	16664.1	22.8	7962.61	0.00
9949.48	20914.9	22.8	9948.64	-0.01
7962.03	16664.4	22.8	7962.75	0.01
5974.92	12448.4	22.8	5975.48	0.01
3987.92	8268.3	22.9	3987.91	-0.00
2001.08	4124.4	22.9	2000.64	-0.00
14.56	19.0	23.0	15.21	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT
32.50	23.48
29.00	21.45
24.00	18.82
18.50	16.40
15.00	15.16
4.50	12.89
1.00	12.38
TEMP (ITS90)	SPAN (mV)
-5.00	24.95
35.00	24.93

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

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

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

