

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4303
 CALIBRATION DATE: 08-Dec-09

SBE 37 PRESSURE CALIBRATION DATA
 10153 psia S/N 8843

COEFFICIENTS:

PA0 = 1.107527e+000
 PA1 = 4.896282e-001
 PA2 = -4.933932e-007

PTCA0 = -6.025227e+001
 PTCA1 = 2.105100e-001
 PTCA2 = -4.156331e-003
 PTCB0 = 2.484362e+001
 PTCB1 = -1.475000e-003
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.71	-29.8	15.5	14.92	0.00
2015.28	4067.0	16.6	2014.36	-0.01
4015.54	8199.4	16.8	4014.44	-0.01
6015.75	12368.9	16.9	6015.38	-0.00
8016.03	16573.8	16.9	8015.87	-0.00
10016.25	20813.9	16.9	10015.42	-0.01
8015.79	16576.4	17.0	8017.15	0.01
6015.50	12371.2	17.1	6016.54	0.01
4015.26	8201.6	17.3	4015.60	0.00
2015.18	4068.2	17.4	2015.01	-0.00
14.72	-28.8	17.9	15.33	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	-28.86	-5.00	24.85
29.00	-28.61	35.00	24.79
24.00	-28.56		
18.50	-28.81		
15.00	-29.11		
4.50	-30.34		
1.00	-31.09		

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

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

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

Date, Avg Delta P %FS

08-Dec-09 0.00

