

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1245
 CALIBRATION DATE: 09-Dec-09

SBE 37 PRESSURE CALIBRATION DATA
 1500 psia S/N 193466

COEFFICIENTS:

PA0 = 3.564269e+000
 PA1 = 6.016269e-002
 PA2 = 2.374548e-008

PTCA0 = -5.589296e+001
 PTCA1 = 2.995741e+000
 PTCA2 = 1.991204e-002
 PTCB0 = 3.000100e+001
 PTCB1 = 5.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.77	185.7	17.7	14.53	-0.02
315.10	5157.4	17.7	314.18	-0.06
615.09	10110.7	17.6	613.92	-0.08
915.09	15054.7	17.5	914.25	-0.06
1215.04	19981.3	17.5	1214.66	-0.03
1515.10	24888.3	17.5	1515.01	-0.01
1214.92	19994.2	17.5	1215.44	0.04
914.93	15079.8	17.4	915.80	0.06
614.92	10142.9	17.4	615.92	0.07
314.92	5184.7	17.4	315.90	0.07
14.77	192.5	17.3	15.03	0.02

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	258.00	0.00	30.00
29.00	243.65	30.00	30.02
24.00	223.12		
18.50	202.25		
15.00	187.01		
4.50	157.38		
1.00	140.23		

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

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

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

Date, Avg Delta P %FS

09-Dec-09 0.00

