

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 30-Nov-10

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193472

COEFFICIENTS:

PA0 = 6.679486e-002
PA1 = 6.004548e-002
PA2 = 2.377308e-008

PTCA0 = -1.419556e+002
PTCA1 = 1.404308e-001
PTCA2 = -4.233196e-003
PTCB0 = 2.980200e+001
PTCB1 = 0.000000e+000
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.61	99.2	20.1	14.48	-0.01
314.89	5081.4	20.3	314.29	-0.04
614.91	10038.6	20.2	613.76	-0.08
914.79	14989.2	20.2	914.00	-0.05
1214.80	19924.1	20.0	1214.45	-0.02
1464.87	24021.9	20.2	1464.81	-0.00
1214.72	19936.1	20.1	1215.18	0.03
914.75	15014.6	20.1	915.54	0.05
614.69	10070.8	20.0	615.71	0.07
314.99	5104.5	20.1	315.68	0.05
14.60	103.1	20.0	14.72	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	111.70	0.00	29.80
29.00	111.69	30.00	29.80
24.00	112.19		
18.50	112.52		
15.00	112.73		
4.50	112.03		
1.00	111.42		

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

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

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

Date, Avg Delta P %FS

30-Nov-10 0.00

