

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1245
CALIBRATION DATE: 16-Apr-12

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193466

COEFFICIENTS:

PA0 = 4.765808e+000
PA1 = 6.012967e-002
PA2 = 2.497362e-008

PTCA0 = -3.762693e+001
PTCA1 = 2.957843e+000
PTCA2 = 1.982427e-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
14.61	198.3	23.2	14.18	-0.03
314.86	5190.8	23.1	314.95	0.01
614.97	10136.9	23.1	614.12	-0.06
914.93	15076.0	23.1	914.09	-0.06
1214.94	20000.2	23.2	1214.34	-0.04
1515.00	24912.3	23.1	1515.11	0.01
1214.94	20017.9	23.1	1215.45	0.03
914.92	15101.1	23.1	915.62	0.05
614.92	10161.4	23.1	615.61	0.05
314.90	5197.5	23.0	315.38	0.03
14.62	207.4	23.0	14.77	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	252.00	0.00	30.00
29.00	236.03	30.00	30.02
24.00	215.97		
18.50	195.03		
15.00	182.83		
4.50	151.01		
1.00	134.72		

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

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

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

Date, Avg Delta P %FS

16-Apr-12 -0.00

