

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4920
 CALIBRATION DATE: 28-Feb-07

SBE 37 PRESSURE CALIBRATION DATA
 508 psia S/N 10020

COEFFICIENTS:

PA0 = 1.262347e-001
 PA1 = 2.402700e-002
 PA2 = 2.838358e-009

PTCA0 = 9.272505e+001
 PTCA1 = 5.017839e-001
 PTCA2 = -1.197894e-002
 PTCB0 = 2.515150e+001
 PTCB1 = -1.000000e-004
 PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.50	695.9	20.6	14.49	-0.00
104.76	4450.1	20.7	104.76	-0.00
204.75	8604.6	20.8	204.74	-0.00
304.74	12755.5	20.8	304.73	-0.00
404.72	16902.7	20.7	404.73	0.00
504.70	21044.6	20.7	504.70	-0.00
404.72	16902.8	20.7	404.73	0.00
304.74	12756.1	20.8	304.74	0.00
204.75	8605.4	20.8	204.76	0.00
104.78	4451.3	20.9	104.79	0.00
14.50	696.2	21.0	14.50	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	739.60	-5.00	25.15
29.00	740.30	35.00	25.15
24.00	741.10		
18.50	741.20		
15.00	740.70		
4.50	737.80		
1.00	736.50		

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

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

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

Date, Avg Delta P %FS

● 28-Feb-07 -0.00

