

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3531
CALIBRATION DATE: 01-Dec-10

SBE 37 PRESSURE CALIBRATION DATA
508 psia S/N 4979

COEFFICIENTS:

PA0 = -4.229647e-003
PA1 = 2.411443e-002
PA2 = 9.960786e-010

PTCA0 = 9.424274e+001
PTCA1 = 1.284044e-001
PTCA2 = -6.228481e-003
PTCB0 = 2.512800e+001
PTCB1 = -1.400000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.65	701.7	21.9	14.67	0.00
104.81	4435.7	21.9	104.84	0.01
204.90	8577.0	21.9	204.88	-0.00
304.89	12716.2	21.9	304.90	0.00
404.90	16852.7	21.9	404.89	-0.00
504.90	20987.7	21.9	504.89	-0.00
404.90	16853.4	21.9	404.91	0.00
304.90	12716.7	21.9	304.91	0.00
204.90	8578.1	21.9	204.91	0.00
104.93	4437.0	21.9	104.87	-0.01
14.65	701.0	21.9	14.65	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	729.95	-5.00	25.14
29.00	730.79	35.00	25.08
24.00	731.67		
18.50	732.61		
15.00	732.70		
4.50	733.12		
1.00	732.16		

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

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

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

Date, Avg Delta P %FS

01-Dec-10 0.00

