

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3763
CALIBRATION DATE: 20-Dec-10

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 5752

COEFFICIENTS:

PA0 = 3.202568e-001
PA1 = 6.844238e-002
PA2 = -3.625651e-009

PTCA0 = -2.144623e+002
PTCA1 = 4.261801e-002
PTCA2 = 7.966489e-003
PTCB0 = 2.493550e+001
PTCB1 = -1.100000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.32	-5.5	21.7	14.32	-0.00
314.56	4377.9	21.8	314.54	-0.00
614.56	8759.5	21.9	614.50	-0.00
914.51	13143.7	22.0	914.50	-0.00
1214.50	17529.9	21.9	1214.49	-0.00
1464.54	21187.2	21.8	1464.52	-0.00
1214.54	17531.2	21.8	1214.58	0.00
914.53	13144.8	21.8	914.57	0.00
614.58	8760.4	21.9	614.56	-0.00
314.62	4380.6	22.0	314.72	0.01
14.33	-5.4	22.0	14.31	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	13.65	-5.00	24.94
29.00	12.20	35.00	24.90
24.00	10.01		
18.50	7.54		
15.00	6.25		
4.50	4.46		
1.00	4.19		

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

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

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

Date, Avg Delta P %FS

20-Dec-10 0.00

