

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA
 Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 4920
 CALIBRATION DATE: 11-Mar-09

SBE 37 PRESSURE CALIBRATION DATA
 508 psia S/N 10020

COEFFICIENTS:

PA0 = 1.013771e-001
 PA1 = 2.403305e-002
 PA2 = 2.807451e-009

PTCA0 = 9.286909e+001
 PTCA1 = 3.879088e-001
 PTCA2 = -8.866484e-003
 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
14.82	709.6	20.2	14.82	0.00
105.08	4460.5	20.2	105.03	-0.01
205.08	8617.2	20.2	205.09	0.00
305.10	12768.2	20.2	305.10	0.00
405.09	16914.6	20.2	405.10	0.00
505.11	21056.6	20.2	505.10	-0.00
405.11	16914.8	20.2	405.11	0.00
305.11	12768.4	20.2	305.11	0.00
205.11	8618.0	20.2	205.11	-0.00
105.08	4463.4	20.3	105.10	0.00
14.82	709.9	20.3	14.83	0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	730.50	-5.00	25.15
29.00	730.90	35.00	25.15
24.00	731.56		
18.50	731.36		
15.00	731.00		
4.50	728.78		
1.00	727.62		

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

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

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

Date, Avg Delta P %FS

11-Mar-09 0.00

