

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3769

CALIBRATION DATE: 07-Dec-11

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 5759

## COEFFICIENTS:

PA0 = 7.423098e-001

PA1 = 6.875585e-002

PA2 = -3.511509e-009

PTCA0 = -1.717144e+002

PTCA1 = 2.170410e-001

PTCA2 = 1.183027e-002

PTCB0 = 2.484900e+001

PTCB1 = 2.000000e-004

PTCB2 = 0.000000e+000

## PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.82	44.2	22.4	14.84	0.00
315.11	4413.2	22.8	315.09	-0.00
615.11	8780.3	22.8	615.09	-0.00
915.12	13149.5	22.9	915.09	-0.00
1215.14	17521.1	23.0	1215.13	-0.00
1465.19	21165.6	22.9	1465.17	-0.00
1215.13	17521.6	23.0	1215.17	0.00
915.09	13150.0	22.9	915.13	0.00
615.10	8780.8	23.0	615.11	0.00
315.13	4414.0	23.1	315.13	-0.00
14.82	44.3	23.2	14.81	-0.00

## THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	64.79	-5.00	24.85
29.00	61.32	35.00	24.86
24.00	57.20		
18.50	53.18		
15.00	51.07		
4.50	46.59		
1.00	45.24		

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

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

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

Date, Avg Delta P %FS

07-Dec-11 -0.00

