

# 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: 2332

CALIBRATION DATE: 09-Dec-11

SBE 37 PRESSURE CALIBRATION DATA

1450 psia S/N 0799

## COEFFICIENTS:

PA0 = 4.439701e-001

PA1 = 6.884172e-002

PA2 = -5.535756e-009

PTCA0 = -1.877617e+002

PTCA1 = 4.017436e-001

PTCA2 = -5.184369e-003

PTCB0 = 2.486613e+001

PTCB1 = -1.750000e-004

PTCB2 = 0.000000e+000

## PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.75	26.7	22.7	14.77	0.00
315.06	4389.7	22.8	315.05	-0.00
615.08	8751.4	22.8	615.04	-0.00
915.08	13116.5	22.7	915.06	-0.00
1215.11	17485.2	22.7	1215.10	-0.00
1465.09	21127.3	22.7	1465.09	-0.00
1215.07	17485.0	22.7	1215.09	0.00
915.03	13116.5	22.7	915.06	0.00
615.03	8751.3	22.7	615.04	0.00
315.03	4389.7	22.7	315.05	0.00
14.75	26.2	22.7	14.73	-0.00

## THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	37.87	-5.00	24.87
29.00	37.94	35.00	24.86
24.00	37.43		
18.50	36.11		
15.00	35.16		
4.50	32.12		
1.00	31.01		

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

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

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

Date, Avg Delta P %FS

● 09-Dec-11 -0.00

