

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: 4078
CALIBRATION DATE: 04-Feb-14

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 7440

COEFFICIENTS:

PA0 = 8.184652e-002
PA1 = 6.858742e-002
PA2 = -3.368322e-009

PTCA0 = -2.142555e+002
PTCA1 = 9.635447e-002
PTCA2 = -1.886005e-003
PTCB0 = 2.481450e+001
PTCB1 = 1.000000e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.73	0.4	21.1	14.72	-0.00
301.59	4183.1	21.1	301.51	-0.01
588.61	8369.5	21.1	588.44	-0.01
875.37	12558.0	21.1	875.39	0.00
1162.49	16749.9	21.0	1162.46	-0.00
1449.41	20942.2	21.1	1449.44	0.00
875.48	12558.6	21.1	875.43	-0.00
588.41	8372.2	21.1	588.62	0.01
301.45	4183.5	21.1	301.54	0.01
14.74	0.6	21.1	14.73	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	12.51	-5.00	24.81
29.00	12.83	35.00	24.82
24.00	12.65		
18.50	12.57		
15.00	12.48		
4.50	11.87		
1.00	11.26		

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

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

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

Date, Avg Delta P %FS

04-Feb-14 -0.00

