

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: 0476
CALIBRATION DATE: 28-Oct-13

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 189032

COEFFICIENTS:

PA0 = 2.804465e-001
PA1 = 6.012470e-002
PA2 = 1.957602e-008

PTCA0 = 3.731905e+000
PTCA1 = -1.422224e-001
PTCA2 = 1.575154e-002
PTCB0 = 3.002200e+001
PTCB1 = -8.333333e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.57	244.5	22.3	14.49	-0.01
314.90	5223.0	22.7	314.52	-0.03
614.98	10176.8	22.6	614.05	-0.06
914.94	15126.3	22.5	914.28	-0.04
1214.97	20061.5	22.5	1214.60	-0.02
1514.97	24981.2	22.4	1514.92	-0.00
1214.93	20074.5	22.4	1215.39	0.03
914.91	15148.7	22.4	915.64	0.05
614.94	10203.3	22.3	615.66	0.05
314.92	5237.4	22.3	315.40	0.03
14.57	247.3	22.5	14.65	0.01

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	263.60	0.00	30.02
29.00	259.70	30.00	30.00
24.00	256.42		
18.50	254.05		
15.00	251.94		
4.50	252.48		
1.00	249.68		

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

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

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

Date, Avg Delta P %FS

28-Oct-13 -0.00

