

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: 0855
CALIBRATION DATE: 09-Jan-12

SBE 39 PRESSURE CALIBRATION DATA
5076 psia S/N 878

COEFFICIENTS:

PA0 = 1.848109e-001
PA1 = 2.434801e-001
PA2 = -1.538740e-007
PTHA0 = -8.917520e+001
PTHA1 = 4.791897e-002
PTHA2 = -4.748485e-007

PTCA0 = -1.077270e+001
PTCA1 = 1.276404e-001
PTCA2 = -4.062705e-003
PTCB0 = 2.503875e+001
PTCB1 = -8.500000e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.72	50.1	2408.0	14.83	0.00
1114.96	4578.1	2412.0	1114.96	-0.00
2115.07	8717.2	2413.0	2115.06	-0.00
3115.15	12878.4	2413.0	3115.18	0.00
4115.12	17061.6	2414.0	4115.22	0.00
5065.10	21055.6	2413.0	5064.98	-0.00
4115.10	17061.5	2411.0	4115.18	0.00
3115.11	12878.3	2410.0	3115.14	0.00
2115.12	8717.1	2409.0	2115.02	-0.00
1114.98	4577.8	2408.0	1114.87	-0.00
14.71	49.5	2407.0	14.69	-0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1863.90	50.80
4.50	1994.40	51.35
11.50	2146.50	51.80
18.50	2299.40	51.99
25.50	2452.90	51.52
32.50	2606.50	50.71

TEMP (ITS90)	SPAN (mV)
-5.00	25.04
35.00	25.01

$$y = \text{thermistor output}; t = P_{\text{TEMPA0}} + P_{\text{TEMPA1}} * y + P_{\text{TEMPA2}} * y^2$$

$$x = \text{pressure output} - P_{\text{TCA0}} - P_{\text{TCA1}} * t - P_{\text{TCA2}} * t^2$$

$$n = x * P_{\text{TCB0}} / (P_{\text{TCB0}} + P_{\text{TCB1}} * t + P_{\text{TCB2}} * t^2)$$

$$\text{pressure (psia)} = P_{\text{A0}} + P_{\text{A1}} * n + P_{\text{A2}} * n^2$$

Date, Avg Delta P %FS

09-Jan-12 -0.00

