# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1638 CALIBRATION DATE: 11-Feb-14

SBE 39 PRESSURE CALIBRATION DATA 508 psia S/N 5731

## **COEFFICIENTS:**

PA1 = 2.400804e-002 PTCA1 = 4.180607e-002 PA2 = 1.530246e-009 PTCA2 = -9.901248e-002 PTHA0 = -8.908173e+001 PTCB0 = 2.498363e+002 PTHA1 = 4.488193e-002 PTCB1 = -1.275000e-002 PTHA2 = -2.377415e-007 PTCB2 = 0.0000000e+000	PAO =	1.058823e-001	$D \pi C \Lambda \cap -$	-2.236571e+001
PA2 = 1.530246e-009 PTCA2 = -9.901248e-000 PTHA0 = -8.908173e+001 PTCB0 = 2.498363e+000 PTHA1 = 4.488193e-002 PTCB1 = -1.275000e-000	rAU -	1.0300236-001	FICAU -	-2.2303/1e+001
PTHA0 = -8.908173e+001 PTCB0 = 2.498363e+001 PTHA1 = 4.488193e-002 PTCB1 = -1.275000e-001	PA1 =	2.400804e-002	PTCA1 =	4.180607e-001
PTHA1 = 4.488193e-002 $PTCB1 = -1.275000e-003$	PA2 =	1.530246e-009	PTCA2 =	-9.901248e-003
	PTHA0 = -	-8.908173e+001	PTCB0 =	2.498363e+001
PTHA2 = -2.377415e-007 $PTCB2 = 0.000000e+000$	PTHA1 =	4.488193e-002	PTCB1 =	-1.275000e-003
	PTHA2 = -	-2.377415e-007	PTCB2 =	0.000000e+000

### PRESSURE SPAN CALIBRATION

#### THERMAL CORRECTION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FS	TEMP ITS90	PRESS TEMP	INST OUTPUT
14.67	588.4	2508.0	14.68	0.00	-1.50	1972.00	593.30
104.93	4341.0	2509.0	104.90	-0.01	1.00	2029.00	594.18
204.94	8499.3	2510.0	204.93	-0.00	4.50	2108.40	595.28
304.96	12654.9	2510.0	304.95	-0.00	8.00	2188.40	596.39
					11.50	2268.50	597.38
404.96	16808.1	2509.0	404.96	-0.00	15.00	2348.10	597.92
504.97	20958.6	2510.0	504.95	-0.00	18.50	2428.10	598.02
404.97	16809.4	2509.0	404.99	0.00	22.00	2508.30	598.10
					25.50	2588.60	598.32
304.97	12656.7	2509.0	304.99	0.00	29.00	2668.80	597.65
204.97	8500.9	2509.0	204.97	0.00	32.50	2748.80	596.74
104.96	4343.7	2509.0	104.97	0.00			
14.67	588.4	2509.0	14.68	0.00	TEMP(ITS	S90)	SPAN(mV)
					-5.00 24		24.99
					35.0	0	24.94

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y = thermistor output; t = PTHA0 + PTHA1 * y + PTHA2 * y^2
x = pressure output - PTCA0 - PTCA1 * t - PTCA2 * t^2
n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)
pressure (psia) = PA0 + PA1 * n + PA2 * n^2
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