Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1603 CALIBRATION DATE: 11-Feb-14

SBE 39 PRESSURE CALIBRATION DATA 508 psia S/N 4924

COEFFICIENTS:

PAO =	1.720758e-001	PTCA0	=	5.317435e+001
PA1 =	2.395849e-002	PTCA1	=	5.718434e-001
PA2 =	1.504860e-009	PTCA2	=	-1.105475e-002
PTHA0 = -	-7.579512e+001	PTCB0	=	2.515287e+001
PTHA1 =	4.840811e-002	PTCB1	=	5.750000e-004
PTHA2 = -	-2.903260e-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
14.66	665.8	2035.0	14.67	0.00	-1.50	1549.00	666.30
104.92	4432.9	2035.0	104.91	-0.00	1.00	1601.90	669.28
204.93	8605.7	2036.0	204.91	-0.00	4.50	1675.50	671.18
	12776.6	2037.0	304.93	-0.00	8.00	1749.50	672.39
					11.50	1823.40	673.39
404.94	16944.8	2037.0	404.93	-0.00	15.00	1897.30	674.13
504.94	21110.9	2037.0	504.93	-0.00	18.50	1971.00	674.53
404.94	16946.5	2037.0	404.97	0.01	22.00	2045.30	675.11
					25.50	2119.40	675.42
304.94	12778.1	2036.0	304.96	0.00	29.00	2193.50	675.45
204.94	8607.1	2037.0	204.95	0.00	32.50	2268.20	675.44
104.94	4433.4	2037.0	104.92	-0.00			
14.66	665.8	2037.0	14.67	0.00	TEMP(IT	S90) S	SPAN(mV)
					-5.0	-5.00	
					35.0	0.0	25.17

y = thermistor output; $t = PTHA0 + PTHA1 * y + PTHA2 * y^2$ x = pressure output - PTCA0 - PTCA1 * t - PTCA2 * t² $n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^{2})$ pressure (psia) = $PA0 + PA1 * n + PA2 * n^2$

