Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3774 CALIBRATION DATE: 02-Mar-15

SBE 39 PRESSURE CALIBRATION DATA 870 psia S/N 2476898

COEFFICIENTS:

PA0 =	5.689427e-002	PTCA0 =	-5.764281e+000
PA1 =	4.100162e-002	PTCA1 =	1.756669e-001
PA2 =	3.476189e-009	PTCA2 =	-4.933097e-003
PTHA0 =	-7.910513e+001	PTCB0 =	2.548963e+001
PTHA1 =	4.895614e-002	PTCB1 =	-6.750000e-004
PTHA2 =	-3.863984e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

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PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FS	TEMP ITS90	PRESS TEMP	INST OUTPUT
14.61	350.	7 2138.0	14.63	0.00	-1.50	1605.50	363.10
179.89	4376.	7 2142.0	179.87	-0.00	1.00	1658.10	363.56
359.90	8759.	6 2143.0	359.89	-0.00	4.50	1731.40	364.03
539.90	13139.		539.92	0.00	8.00	1804.80	364.51
					11.50	1878.60	364.81
719.91	17515.	3 2144.0	719.92	0.00	15.00	1952.30	364.90
869.90	21158.	4 2144.0	869.88	-0.00	18.50	2026.20	364.91
719.91	17515.	5 2144.0	719.93	0.00	22.00	2100.00	364.83
					25.50	2174.10	364.61
539.92	13139.	6 2143.0	539.93	0.00	29.00	2248.10	364.41
359.92	8759.	9 2143.0	359.90	-0.00	32.50	2322.20	363.86
179.91	4377.	3 2143.0	179.89	-0.00			
14.61	350.8	3 2143.0	14.63	0.00	TEMP(IT	S90)	SPAN(mV)
					-5.0	00	25.49
					35.0	00	25.47

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

