Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3769
CALIBRATION DATE: 02-Mar-15

SBE 39 PRESSURE CALIBRATION DATA
870 psia S/N 2471022

COEFFICIENTS:

PA0 =	1.204597e-001	PTCA0 =	1.224508e+001
PA1 =	4.213030e-002	PTCA1 =	2.850263e-001
PA2 =	3.276851e-009	PTCA2 =	-6.913012e-003
PTHA0 =	-7.574111e+001	PTCB0 =	2.484813e+001
PTHA1 =	5.049225e-002	PTCB1 =	-9.750000e-004
PTHA2 =	-5.286128e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FS
14.61	359.1	2019.0	14.63	0.00
179.89	4276.1	2022.0	179.87	-0.00
359.90	8540.7	2025.0	359.89	-0.00
539.90	12802.7	2025.0	539.92	0.00
719.91	17061.2	2025.0	719.92	0.00
869.90	20606.9	2025.0	869.88	-0.00
719.91	17061.3	2025.0	719.92	0.00
539.92	12803.0	2025.0	539.93	0.00
359.92	8541.2	2024.0	359.91	-0.00
179.91	4276.7	2024.0	179.89	-0.00
14.61	359.1	2023.0	14.63	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1493.70	368.20
1.00	1545.00	369.22
4.50	1616.40	369.99
8.00	1688.30	370.65
11.50	1760.20	371.12
15.00	1832.20	371.50
18.50	1904.40	371.74
22.00	1976.90	371.67
25.50	2049.00	371.50
29.00	2121.60	371.29
32.50	2194.00	370.78

TEMP(ITS90)	SPAN(mV)
-5.00	24.85
35.00	24.81

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) = $PA0 + PA1 * n + PA2 * n^2$

Date, Avg Delta P %FS
● 02-Mar-15   -0.00