Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 11-Apr-13

SBE 49 PRESSURE CALIBRATION DATA
508 psia S/N 2012

COEFFICIENTS:

PA0 =	9.876712e-002	PTCA0 =	5.247009e+005
PA1 =	1.566601e-003	PTCA1 =	6.712527e+000
PA2 =	9.208533e-012	PTCA2 =	-1.712242e-001
PTEMPA0 =	-7.556665e+001	PTCB0 =	2.480350e+001
PTEMPA1 =	5.028831e+001	PTCB1 =	3.000000e-004
PTEMPA2 =	-4.759431e-001	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.74	534112.0	2.0	14.74	-0.00
105.00	591697.0	2.0	104.97	-0.01
205.00	655474.0	2.0	204.97	-0.01
305.01	719216.0	2.0	304.99	-0.00
405.03	782901.0	2.0	405.00	-0.01
505.02	846551.0	2.0	505.02	0.00
405.02	782930.0	2.0	405.04	0.01
305.02	719250.0	2.0	305.04	0.00
205.02	655515.0	2.0	205.03	0.00
105.01	591755.0	2.0	105.06	0.01
14.74	534113.0	2.0	14.74	-0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.51	2.19	534876.03
29.01	2.12	534891.61
24.00	2.02	534903.60
18.50	1.91	534903.63
15.00	1.83	534902.47
4.50	1.62	534866.36
1.00	1.54	534846.70

TEMP (ITS90)	SPAN (mV)
-5.00	24.80
35.00	24.81

y = thermistor output; $t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

x = pressure output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

pressure (psia) = $PA0 + PA1 * n + PA2 * n^2$