Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 14-Sep-11

SBE GLIDER PAYLOAD CTD
PRESSURE CALIBRATION DATA
44 psia S/N 3220333

COEFFICIENTS:

PA0 =	-9.891704e-003	PTCA0 =	5.263702e+005
PA1 =	1.515808e-004	PTCA1 =	-7.767126e+000
PA2 =	-6.605448e-012	PTCA2 =	2.122233e-001
PTEMPA0 =	-7.425343e+001	PTCB0 =	2.496538e+001
PTEMPA1 =	4.827782e-002	PTCB1 =	-7.250000e-004
PTEMPA2 =	-1.434117e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.63	623216.0	1999.0	14.63	-0.00
29.91	725246.0	2002.0	29.90	-0.02
34.90	758912.0	2003.0	34.91	0.03
39.90	792559.0	2005.0	39.91	0.02
44.90	826283.0	2006.0	44.90	-0.01
39.90	792472.0	2007.0	39.89	-0.02
34.91	758880.0	2009.0	34.91	0.01
29.92	725308.0	2010.0	29.91	-0.01
24.93	691908.0	2011.0	24.93	-0.01
14.63	623233.0	2013.0	14.63	0.01

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2226	628752.50
29.00	2153	628794.80
24.00	2048	628747.10
18.50	1933	628735.70
15.00	1859	628713.80
4.50	1639	628714.10
1.00	1566	628821.70

TEMP(ITS90)	SPAN(mV)
-5.00	24.97
35.00	24.94

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