Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1623
CALIBRATION DATE: 07-Dec-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5407

COEFFICIENTS:

PA0 =	1.906876e-001	PTCA0 =	-5.844188e+002
PA1 =	2.408341e-002	PTCA1 =	4.139960e-001
PA2 =	1.560271e-009	PTCA2 =	-2.443443e-003
PTHA0 =	-9.249665e+001	PTCB0 =	2.431613e+001
PTHA1 =	4.468237e-002	PTCB1 =	-1.575000e-003
PTHA2 =	-3.215812e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.83	30.8	2611.0	14.84	0.00
105.05	3768.2	2619.0	105.00	-0.01
205.05	7912.4	2620.0	205.04	-0.00
305.06	12053.6	2620.0	305.05	-0.00
405.07	16192.3	2621.0	405.06	-0.00
505.07	20328.3	2621.0	505.06	-0.00
405.10	16194.3	2621.0	405.11	0.00
305.10	12056.4	2622.0	305.12	0.00
205.11	7916.0	2622.0	205.13	0.00
105.12	3773.3	2622.0	105.13	0.00
14.83	31.0	2625.0	14.84	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	2067.30	35.50
4.50	2206.00	37.86
11.50	2367.80	40.44
18.50	2530.30	42.93
25.50	2693.00	45.13
32.50	2856.20	46.89

TEMP(ITS90)	SPAN(mV)
-5.00	24.32
35.00	24.26

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