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: 1636
CALIBRATION DATE: 07-Dec-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5635

COEFFICIENTS:

PA0 =	-1.348826e-002	PTCA0 =	-2.566606e+001
PA1 =	2.405061e-002	PTCA1 =	1.685767e-001
PA2 =	1.449825e-009	PTCA2 =	-8.737713e-003
PTHA0 =	-8.817353e+001	PTCB0 =	2.496113e+001
PTHA1 =	4.615994e-002	PTCB1 =	-1.575000e-003
PTHA2 =	-4.046572e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.83	590.6	2443.0	14.84	0.00
105.10	4335.3	2452.0	105.06	-0.01
205.09	8485.0	2453.0	205.09	-0.00
305.10	12631.8	2454.0	305.09	-0.00
405.09	16776.5	2454.0	405.09	-0.00
505.08	20918.3	2454.0	505.08	-0.00
405.10	16777.0	2453.0	405.10	0.00
305.11	12632.8	2453.0	305.11	0.00
205.10	8486.5	2453.0	205.12	0.00
105.11	4337.2	2453.0	105.11	-0.00
14.83	590.2	2457.0	14.84	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1909.60	603.90
4.50	2044.50	604.56
11.50	2201.70	604.84
18.50	2359.60	604.23
25.50	2518.30	602.73
32.50	2677.00	600.19

TEMP(ITS90)	SPAN(mV)
-5.00	24.97
35.00	24.91

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