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: 1638
CALIBRATION DATE: 07-Dec-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5731

COEFFICIENTS:

PA0 =	8.972052e-002	PTCA0 =	-2.085790e+001
PA1 =	2.402165e-002	PTCA1 =	4.028000e-001
PA2 =	1.545067e-009	PTCA2 =	-1.056420e-002
PTHA0 =	-8.935125e+001	PTCB0 =	2.498363e+001
PTHA1 =	4.516125e-002	PTCB1 =	-1.275000e-003
PTHA2 =	-2.957763e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.83	596.0	2513.0	14.84	0.00
105.10	4347.3	2519.0	105.08	-0.00
205.09	8502.3	2520.0	205.09	-0.00
305.10	12654.4	2520.0	305.08	-0.00
405.09	16805.0	2520.0	405.09	-0.00
505.08	20952.7	2520.0	505.08	-0.00
405.10	16805.7	2519.0	405.11	0.00
305.11	12655.8	2519.0	305.11	0.00
205.10	8503.7	2519.0	205.12	0.00
105.11	4348.5	2519.0	105.11	-0.00
14.83	595.9	2521.0	14.83	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1970.80	604.70
4.50	2107.30	606.66
11.50	2266.80	608.44
18.50	2426.80	609.13
25.50	2587.00	608.64
32.50	2747.50	607.09

TEMP(ITS90)	SPAN(mV)
-5.00	24.99
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) = $PA0 + PA1 * n + PA2 * n^2$