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: 0987
CALIBRATION DATE: 07-Dec-11

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 1327

COEFFICIENTS:

PA0 =	7.773046e-002	PTCA0 =	2.561025e+001
PA1 =	2.427816e-002	PTCA1 =	3.011400e-001
PA2 =	1.488850e-009	PTCA2 =	-7.073716e-003
PTHA0 =	-6.174592e+001	PTCB0 =	2.485063e+001
PTHA1 =	5.028197e-002	PTCB1 =	-2.750000e-004
PTHA2 =	-1.139335e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.83	636.7	1673.0	14.84	0.00
105.05	4348.5	1680.0	105.01	-0.01
205.05	8464.6	1680.0	205.04	-0.00
305.06	12577.7	1682.0	305.05	-0.00
405.07	16688.8	1681.0	405.07	-0.00
505.07	20797.1	1681.0	505.06	-0.00
405.10	16690.7	1681.0	405.11	0.00
305.10	12580.7	1680.0	305.12	0.00
205.11	8468.2	1680.0	205.13	0.00
105.12	4353.3	1680.0	105.12	0.00
14.83	636.6	1684.0	14.84	0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1201.30	646.10
4.50	1321.60	647.56
11.50	1461.30	648.94
18.50	1602.00	649.62
25.50	1742.10	649.63
32.50	1882.30	648.68

TEMP(ITS90)	SPAN(mV)
-5.00	24.85
35.00	24.84

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