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: 0991
CALIBRATION DATE: 27-Jun-12

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 1344

COEFFICIENTS:

PA0 =	3.025133e-001	PTCA0 =	5.178575e+001
PA1 =	2.396725e-002	PTCA1 =	8.122164e-001
PA2 =	1.937778e-009	PTCA2 =	-1.173622e-002
PTHA0 =	-6.132662e+001	PTCB0 =	2.516038e+001
PTHA1 =	5.050637e-002	PTCB1 =	6.750000e-004
PTHA2 =	-8.251312e-008	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.63	662.4	1686.0	14.63	-0.00
104.87	4429.4	1686.0	104.89	0.00
204.89	8599.4	1684.0	204.88	-0.00
304.90	12766.7	1684.0	304.86	-0.01
404.88	16932.2	1683.0	404.87	-0.00
504.88	21095.3	1681.0	504.90	0.00
404.90	16933.1	1681.0	404.90	-0.00
304.91	12768.1	1681.0	304.90	-0.00
204.87	8601.8	1680.0	204.94	0.01
104.92	4430.1	1681.0	104.91	-0.00
14.63	662.1	1681.0	14.62	-0.00

THERMAL CORRECTION

TEMP ITS90	PRESS TEMP	INST OUTPUT
-1.50	1186.90	659.40
4.50	1306.00	663.99
11.50	1445.40	668.37
18.50	1584.50	671.68
25.50	1724.00	673.84
32.50	1863.30	674.49

TEMP(ITS90)	SPAN(mV)
-5.00	25.16
35.00	25.18

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