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: 0277
CALIBRATION DATE: 08-Jan-13

SBE 49 PRESSURE CALIBRATION DATA
508 psia S/N 3638435

COEFFICIENTS:

PA0 =	1.029576e-001		PTCA0 =	5.252991e+005
PA1 =	1.550819e-003		PTCA1 =	5.540914e+000
PA2 =	8.080206e-012		PTCA2 =	-1.153554e-001
PTEMPA0 =	-5.771557e+001		PTCB0 =	2.503538e+001
PTEMPA1 =	5.778161e+001		PTCB1 =	7.500000e-005
PTEMPA2 =	-1.066359e+000		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.58	534695.0	1.4	14.57	-0.00
104.87	592910.0	1.4	104.88	0.00
204.88	657322.0	1.4	204.87	-0.00
304.87	721702.0	1.4	304.88	0.00
404.88	786035.0	1.4	404.87	-0.00
504.88	850334.0	1.4	504.89	0.00
404.89	786040.0	1.4	404.88	-0.00
304.88	721706.0	1.4	304.88	-0.00
204.89	657330.0	1.4	204.88	-0.00
104.88	592910.0	1.4	104.88	0.00
14.57	534695.0	1.4	14.57	0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	1.61	535544.00
29.00	1.54	535546.21
24.00	1.45	535552.23
18.50	1.35	535547.82
15.00	1.29	535542.30
4.50	1.10	535506.10
1.00	1.04	535490.86

TEMP(ITS90)	SPAN(mV)
-5.00	25.04
35.00	25.04

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

Date, Avg Delta P %FS

● 08-Jan-13   0.00