# 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: 1623 CALIBRATION DATE: 11-Feb-14 SBE 39 PRESSURE CALIBRATION DATA 508 psia S/N 5407

#### **COEFFICIENTS:**

PA0 =	1.970455e-001	PTCA0 = -5.849775e + 0.0000000000000000000000000000000000	002
PA1 =	2.409329e-002	PTCA1 = 4.279173e-0	001
PA2 =	1.591748e-009	PTCA2 = -2.308610e-0	003
PTHA0 =	-9.215319e+001	PTCB0 = 2.431613e+0	001
PTHA1 =	4.442658e-002	PTCB1 = -1.575000e-0	003
PTHA2 =	-2.699733e-007	PTCB2 = 0.000000e+0	000

#### PRESSURE SPAN CALIBRATION

### THERMAL CORRECTION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FS	TEMP ITS90	PRESS TEMP	INST OUTPUT
14.66 104.92 204.93 304.93 404.94 504.94 404.94 304.94 204.94	22.9 3761.8 7903.3 12042.9 16179.7 20313.7 16180.7 12044.0 7904.8 3762.6	2602.0 2606.0 2608.0 2607.0 2608.0 2609.0 2608.0 2608.0 2608.0	14.67 104.90 204.91 304.93 404.94 504.93 404.96 304.96 204.95 104.92	0.00 -0.00 -0.00 -0.00 -0.00 -0.00 0.00 0.00	-1.50 1.00 4.50 8.00 11.50 15.00 18.50 22.00 25.50 29.00 32.50	2066.50 2124.40 2205.00 2286.00 2366.90 2448.50 2529.50 2611.10 2692.40 2774.00 2855.10	27.10 28.08 29.64 31.04 32.26 33.60 34.97 35.90 37.07 38.36 39.11
14.66	23.3	2607.0	14.67	0.00	TEMP(ITS -5.0 35.0	0	SPAN(mV) 24.32 24.26

$$\begin{split} &y = thermistor\ output;\ \ t = PTHA0 + PTHA1 * y + PTHA2 * y^2 \\ &x = pressure\ output - PTCA0 - PTCA1 * t - PTCA2 * t^2 \\ &n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2) \\ &pressure\ (psia) = PA0 + PA1 * n + PA2 * n^2 \end{split}$$

