# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3979 CALIBRATION DATE: 30-Sep-16

SBE 37 PRESSURE CALIBRATION DATA 1450 psia S/N 6410

#### **COEFFICIENTS:**

PA0	=	2.073244e-001
PA1	=	6.896357e-002
DA2	=	-1 783969e-009

PTCA0 = -2.087756e+002 PTCA1 = 1.694636e-001 PTCA2 = -1.614340e-003 PTCB0 = 2.473987e+001 PTCB1 = -6.250000e-004 PTCB2 = 0.000000e+000

#### PRESSURE SPAN CALIBRATION

### THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	INSTRUMENT OUTPUT (counts)
14.63	2.9	22.6	14.61	-0.00	32.50	13.58
301.09	4156.2	22.7	301.16	0.01	29.00	13.51
588.16	8315.8	22.8	588.09	-0.00	24.00	13.10
875.23	12478.3	22.8	875.16	-0.00	18.50	12.45
1162.25	16641.9	22.8	1162.24	-0.00	15.00	11.90
1449.22	20804.8	22.7	1449.21	-0.00	4.50	10.69
1162.33	16643.8	22.8	1162.38	0.00	1.00	10.00
875.26	12480.2	22.8	875.29	0.00		
588.26	8318.1	22.9	588.25	-0.00	TEMPERATURE (°C)	SPAN (mV)
301.23	4158.0	22.9	301.29	0.00	-5.00	24.74
14.63	2.8	22.9	14.60	-0.00	35.00	24.72

 $x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t^2$   $n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$  $pressure (PSIA) = PA0 + PA1 * n + PA2 * n^2$ 

Residual (%FSR) = (computed pressure - true pressure) \* 100 / Full Scale Range

