

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1635
CALIBRATION DATE: 25-Nov-15

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5634

COEFFICIENTS:

PA0 =	-5.182145e-001	PTCA0 =	-5.249161e+002
PA1 =	2.406066e-002	PTCA1 =	-8.380969e-001
PA2 =	1.671303e-009	PTCA2 =	-6.259964e-003
PTHA0 =	-8.762952e+001	PTCB0 =	2.436025e+001
PTHA1 =	4.594914e-002	PTCB1 =	-3.150000e-003
PTHA2 =	-3.670633e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.75	86.4	2433.0	14.75	0.00	-1.50	1903.30	119.50
105.03	3825.3	2441.0	105.01	-0.00	1.00	1959.70	117.08
205.03	7965.6	2442.0	205.01	-0.00	4.50	2038.20	114.15
305.03	12104.0	2441.0	305.02	-0.00	8.00	2116.90	111.11
405.04	16240.3	2443.0	405.04	0.00	11.50	2196.00	107.56
505.05	20373.3	2443.0	505.04	-0.00	15.00	2274.80	104.10
405.03	16241.0	2442.0	405.05	0.00	18.50	2353.90	100.37
305.04	12104.9	2443.0	305.05	0.00	22.00	2433.40	96.61
205.03	7966.6	2444.0	205.04	0.00	25.50	2512.50	92.91
105.03	3825.9	2443.0	105.03	0.00	29.00	2591.70	88.52
14.74	85.7	2444.0	14.75	0.00	32.50	2671.50	84.14

TEMPERATURE (°C)	SPAN (mV)
-5.00	24.38
35.00	24.25

y = thermistor output (counts)

t = PTHA0 + PTHA1 * y + PTHA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

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

Date, Offset (%FSR)

● 25-Nov-15 -0.00

