

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1603
CALIBRATION DATE: 25-Nov-15

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 4924

COEFFICIENTS:

PA0 =	1.715856e-001	PTCA0 =	5.394205e+001
PA1 =	2.397171e-002	PTCA1 =	5.727019e-001
PA2 =	1.740136e-009	PTCA2 =	-1.116296e-002
PTHA0 =	-7.602809e+001	PTCB0 =	2.515287e+001
PTHA1 =	4.868130e-002	PTCB1 =	5.750000e-004
PTHA2 =	-3.599705e-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	669.7	2036.0	14.75	0.00	-1.50	1548.60	671.30
105.03	4435.6	2044.0	105.02	-0.00	1.00	1601.20	674.28
205.03	8605.7	2044.0	205.02	-0.00	4.50	1675.00	676.35
305.04	12773.1	2044.0	305.03	-0.00	8.00	1748.70	677.61
405.04	16938.3	2045.0	405.04	-0.00	11.50	1822.80	678.35
505.05	21100.6	2045.0	505.04	-0.00	15.00	1896.50	679.09
405.04	16939.3	2045.0	405.06	0.00	18.50	1970.30	679.56
305.05	12774.3	2045.0	305.06	0.00	22.00	2044.70	680.20
205.04	8606.5	2045.0	205.04	0.00	25.50	2118.50	680.30
105.03	4436.6	2044.0	105.04	0.00	29.00	2192.90	680.50
14.75	669.5	2047.0	14.75	-0.00	32.50	2267.60	680.43

TEMPERATURE (°C)	SPAN (mV)
-5.00	25.15
35.00	25.17

y = thermistor output (counts)

$$t = PTHA0 + PTHA1 * y + PTHA2 * y^2$$

$$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$$

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

$$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$$

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

Date, Offset (%FSR)

● 25-Nov-15 -0.00

