

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0986
CALIBRATION DATE: 25-Nov-15

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 1326

COEFFICIENTS:

PA0 =	7.796751e-002	PTCA0 =	4.976615e+000
PA1 =	2.420952e-002	PTCA1 =	4.047746e-001
PA2 =	1.832845e-009	PTCA2 =	-1.183399e-002
PTHA0 =	-6.217541e+001	PTCB0 =	2.491425e+001
PTHA1 =	5.074929e-002	PTCB1 =	-7.500000e-004
PTHA2 =	-4.821843e-008	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)
14.74	613.8	1654.0	14.75	0.00	-1.50	1196.90	620.70
105.01	4337.8	1647.0	105.00	-0.00	1.00	1246.40	621.68
205.01	8461.5	1647.0	204.99	-0.00	4.50	1315.40	622.85
305.02	12583.6	1648.0	305.01	-0.00	8.00	1384.70	623.82
405.03	16702.7	1648.0	405.01	-0.00	11.50	1453.70	624.46
505.04	20819.5	1649.0	505.03	-0.00	15.00	1522.90	624.80
405.03	16704.4	1648.0	405.06	0.01	18.50	1592.20	624.68
305.03	12585.2	1649.0	305.05	0.00	22.00	1661.30	624.51
205.03	8463.3	1649.0	205.03	0.00	25.50	1730.40	623.91
105.02	4339.2	1648.0	105.03	0.00	29.00	1799.50	623.02
14.74	613.5	1652.0	14.74	-0.00	32.50	1869.00	622.05

TEMPERATURE (°C)	SPAN (mV)
-5.00	24.92
35.00	24.89

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

