

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3760
CALIBRATION DATE: 04-Oct-16

SBE 39 PRESSURE CALIBRATION DATA
870 psia S/N 2373776

COEFFICIENTS:

PA0 =	3.696145e-001	PTCA0 =	2.851826e+001
PA1 =	4.109597e-002	PTCA1 =	6.034110e-001
PA2 =	4.752018e-009	PTCA2 =	-9.750838e-003
PTHA0 =	-7.632376e+001	PTCB0 =	2.538575e+001
PTHA1 =	5.039715e-002	PTCB1 =	1.750000e-003
PTHA2 =	-5.285628e-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)
14.54	383.4	2058.0	14.56	0.00	-1.50	1508.60	381.80
179.79	4408.1	2059.0	179.76	-0.00	1.00	1559.90	383.28
359.80	8788.8	2058.0	359.75	-0.01	4.50	1631.50	385.21
539.80	13165.8	2057.0	539.77	-0.00	8.00	1703.60	387.03
719.79	17537.8	2056.0	719.77	-0.00	11.50	1775.60	388.43
869.77	21177.1	2055.0	869.74	-0.00	15.00	1847.90	389.60
719.81	17540.0	2052.0	719.87	0.01	18.50	1920.30	390.55
539.83	13167.9	2051.0	539.87	0.01	22.00	1992.80	391.33
359.83	8791.2	2050.0	359.86	0.00	25.50	2065.00	391.63
179.82	4409.1	2049.0	179.81	-0.00	29.00	2137.90	391.93
14.54	382.9	2039.0	14.54	0.00	32.50	2210.50	392.18

TEMPERATURE (°C)	SPAN (mV)
-5.00	25.38
35.00	25.45

y = thermistor output (counts)

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

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

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

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

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

Date, Offset (%FSR)

● 04-Oct-16 0.00

