

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 06-Oct-16

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 4713

COEFFICIENTS:

PA0 =	1.372443e-001	PTCA0 =	6.161378e+001
PA1 =	2.415328e-002	PTCA1 =	4.203295e-001
PA2 =	1.456562e-009	PTCA2 =	-7.510882e-003
PTHA0 =	-9.272921e+001	PTCB0 =	2.504188e+001
PTHA1 =	4.424286e-002	PTCB1 =	1.175000e-003
PTHA2 =	-2.267909e-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)
14.66	669.1	2650.0	14.66	0.00	-1.50	2084.20	675.60
105.01	4410.8	2653.0	104.96	-0.01	1.00	2142.20	676.88
205.01	8553.0	2653.0	204.98	-0.01	4.50	2222.90	677.96
305.01	12693.5	2653.0	305.00	-0.00	8.00	2303.90	679.15
405.01	16830.7	2654.0	405.00	-0.00	11.50	2385.00	680.02
505.01	20965.3	2654.0	504.98	-0.01	15.00	2466.00	681.12
405.01	16832.5	2653.0	405.04	0.01	18.50	2547.50	681.35
305.01	12695.5	2653.0	305.05	0.01	22.00	2628.60	681.96
205.02	8555.3	2653.0	205.03	0.00	25.50	2710.00	682.16
105.02	4412.5	2652.0	105.00	-0.00	29.00	2791.10	682.29
14.66	670.8	2651.0	14.70	0.01	32.50	2872.90	681.93

TEMPERATURE (°C)	SPAN (mV)
-5.00	25.04
35.00	25.08

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)

● 06-Oct-16 -0.00

