

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0987  
CALIBRATION DATE: 25-Nov-15

SBE 39 PRESSURE CALIBRATION DATA  
508 psia S/N 1327

## COEFFICIENTS:

PA0 =	7.611181e-002	PTCA0 =	2.376064e+001
PA1 =	2.428790e-002	PTCA1 =	3.088925e-001
PA2 =	1.619132e-009	PTCA2 =	-7.547684e-003
PTHA0 =	-6.168463e+001	PTCB0 =	2.485063e+001
PTHA1 =	5.029659e-002	PTCB1 =	-2.750000e-004
PTHA2 =	-1.209740e-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	631.1	1678.0	14.76	0.00	-1.50	1200.00	637.60
105.03	4344.8	1688.0	105.01	-0.00	1.00	1250.00	639.08
205.03	8457.5	1689.0	205.01	-0.01	4.50	1320.20	639.45
305.03	12568.8	1690.0	305.03	-0.00	8.00	1390.30	640.22
405.04	16677.3	1690.0	405.03	-0.00	11.50	1460.10	640.77
505.05	20783.3	1691.0	505.03	-0.00	15.00	1530.10	641.21
405.03	16678.5	1690.0	405.06	0.01	18.50	1600.50	641.38
305.04	12570.0	1690.0	305.05	0.00	22.00	1670.50	641.52
205.03	8459.0	1691.0	205.04	0.00	25.50	1740.80	641.52
105.03	4345.7	1691.0	105.03	-0.00	29.00	1810.70	640.93
14.74	630.9	1691.0	14.75	0.00	32.50	1881.20	640.26

TEMPERATURE (°C)	SPAN (mV)
-5.00	24.85
35.00	24.84

y = thermistor output (counts)

t = PTHA0 + PTHA1 \* y + PTHA2 \* y<sup>2</sup>

x = instrument output - PTCA0 - PTCA1 \* t - PTCA2 \* t<sup>2</sup>

n = x \* PTCB0 / (PTCB0 + PTCB1 \* t + PTCB2 \* t<sup>2</sup>)

pressure (PSIA) = PA0 + PA1 \* n + PA2 \* n<sup>2</sup>

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

Date, Offset (%FSR)

● 25-Nov-15 0.00

