

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1807
CALIBRATION DATE: 25-Nov-15

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 6690

COEFFICIENTS:

PA0 =	-8.944249e-001	PTCA0 =	9.295268e+002
PA1 =	2.412925e-002	PTCA1 =	-1.595153e+000
PA2 =	1.504581e-009	PTCA2 =	-6.204512e-003
PTHA0 =	-8.736848e+001	PTCB0 =	2.602850e+001
PTHA1 =	4.696743e-002	PTCB1 =	-1.300000e-003
PTHA2 =	-4.785047e-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	1540.4	2374.0	14.76	0.00	-1.50	1863.60	1590.30
105.03	5274.4	2382.0	105.00	-0.01	1.00	1919.00	1586.68
205.03	9411.4	2383.0	205.01	-0.00	4.50	1996.60	1580.85
305.04	13546.3	2384.0	305.03	-0.00	8.00	2074.50	1575.41
405.04	17678.6	2385.0	405.03	-0.00	11.50	2152.40	1568.36
505.05	21808.5	2386.0	505.03	-0.00	15.00	2230.00	1562.00
405.04	17680.3	2385.0	405.07	0.01	18.50	2308.20	1556.67
305.05	13547.7	2385.0	305.06	0.00	22.00	2386.70	1550.31
205.04	9412.6	2385.0	205.05	0.00	25.50	2465.20	1543.61
105.03	5275.8	2386.0	105.04	0.00	29.00	2543.50	1536.92
14.75	1539.2	2388.0	14.76	0.00	32.50	2622.20	1529.25

TEMPERATURE (°C)	SPAN (mV)
-5.00	26.04
35.00	25.98

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

