

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3768
CALIBRATION DATE: 16-Nov-15

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 5757

COEFFICIENTS:

PA0 =	3.491084e-001	PTCA0 =	-1.689713e+002
PA1 =	6.888693e-002	PTCA1 =	9.604186e-002
PA2 =	-5.420834e-009	PTCA2 =	6.578265e-003
		PTCB0 =	2.487912e+001
		PTCB1 =	-1.750000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	INSTRUMENT OUTPUT (counts)
14.67	44.2	21.4	14.69	0.00	32.50	61.55
301.45	4207.4	21.6	301.41	-0.00	29.00	59.81
588.36	8375.3	21.7	588.28	-0.01	24.00	57.74
875.38	12547.7	21.7	875.26	-0.01	18.50	55.50
1162.48	16726.6	21.7	1162.51	0.00	15.00	54.25
1449.48	20903.5	21.7	1449.42	-0.00	4.50	52.32
1162.54	16728.3	21.7	1162.62	0.01	1.00	51.46
875.50	12552.3	21.7	875.58	0.01		
588.55	8380.6	21.8	588.64	0.01		
301.46	4208.0	22.5	301.43	-0.00		
14.64	44.3	22.6	14.66	0.00		

TEMPERATURE (°C) SPAN (mV)

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

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

$$\text{pressure (PSIA)} = \text{PA0} + \text{PA1} * n + \text{PA2} * n^2$$

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

