

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 05-Dec-16

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 192113

COEFFICIENTS:

PA0 = -2.557200e-001
PA1 = 6.007621e-002
PA2 = 2.147923e-008

PTCA0 = -3.062436e+000
PTCA1 = -2.923623e-001
PTCA2 = 4.370882e-003
PTCB0 = 3.005400e+001
PTCB1 = -5.666667e-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)
14.64	238.0	21.4	14.49	-0.01	32.50	255.40
314.73	5207.2	21.5	313.72	-0.07	29.00	255.62
614.71	10168.9	21.5	613.57	-0.08	24.00	255.97
914.89	15125.4	21.5	914.15	-0.05	18.50	256.43
1214.85	20060.3	21.5	1214.48	-0.02	15.00	256.71
1514.85	24977.1	21.5	1514.74	-0.01	4.50	259.46
1214.86	20074.8	21.6	1215.36	0.03	1.00	259.87
914.87	15150.8	21.6	915.70	0.06		
614.84	10207.5	21.6	615.91	0.07	TEMPERATURE (°C)	SPAN (mV)
314.90	5240.6	21.6	315.74	0.06	0.00	30.05
14.64	244.9	21.6	14.91	0.02	30.00	30.04

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

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

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

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

Date, Offset (%FSR)

● 05-Dec-16 0.00

