

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3318
CALIBRATION DATE: 05-Dec-16

SBE 37 PRESSURE CALIBRATION DATA
508 psia S/N 3683

COEFFICIENTS:

PA0 = 4.111239e-003
PA1 = 2.400306e-002
PA2 = 1.555720e-009

PTCA0 = -2.518732e+000
PTCA1 = 1.389588e-001
PTCA2 = -5.887296e-003
PTCB0 = 2.502287e+001
PTCB1 = -1.225000e-003
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)
14.62	606.1	22.3	14.63	0.00	32.50	634.98
104.87	4360.2	22.3	104.86	-0.00	29.00	635.58
204.90	8518.4	22.2	204.86	-0.01	24.00	636.54
304.89	12674.6	22.2	304.87	-0.00	18.50	637.12
404.89	16828.6	22.2	404.88	-0.00	15.00	637.55
504.88	20979.7	22.2	504.87	-0.00	4.50	636.91
404.88	16829.8	22.2	404.91	0.01	1.00	636.86
304.88	12676.2	22.2	304.91	0.01		
204.88	8519.8	22.2	204.90	0.00	TEMPERATURE (°C)	SPAN (mV)
104.89	4361.4	22.2	104.89	0.00	-5.00	25.03
14.62	605.7	22.2	14.62	0.00	35.00	24.98

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

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

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

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

Date, Offset (%FSR)

● 05-Dec-16 -0.00

