

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4285  
CALIBRATION DATE: 27-Feb-15

SBE 37 PRESSURE CALIBRATION DATA  
FSR: 1450 psia S/N 8344

## COEFFICIENTS:

PA0 = 3.759847e-001  
PA1 = 6.880457e-002  
PA2 = -2.850994e-009

PTCA0 = -1.433998e+002  
PTCA1 = 1.804995e-001  
PTCA2 = 2.770730e-003  
PTCB0 = 2.491525e+001  
PTCB1 = -1.500000e-004  
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION					THERMAL CORRECTION	
PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS	TEMP ITS90	INST OUTPUT
14.49	68.2	22.5	14.56	0.01	32.50	97.66
306.56	4311.0	22.6	306.47	-0.01	29.00	96.59
589.19	8420.1	22.6	589.08	-0.01	24.00	95.00
875.98	12593.7	22.6	876.03	0.00	18.50	93.10
1163.06	16769.9	22.7	1163.05	-0.00	15.00	92.20
1450.05	20945.9	22.7	1449.97	-0.01	4.50	90.00
1163.20	16773.2	22.7	1163.28	0.01	1.00	89.02
876.06	12595.6	22.7	876.15	0.01	TEMP (ITS90)    SPAN (mV)	
588.95	8418.0	22.7	588.93	-0.00		
301.79	4240.7	22.7	301.63	-0.01		
14.49	68.3	22.8	14.56	0.00		
					-5.00	24.92
					35.00	24.91

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

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

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

