

# 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: 3766  
CALIBRATION DATE: 16-Nov-15

SBE 37 PRESSURE CALIBRATION DATA  
1450 psia S/N 5755

## COEFFICIENTS:

PA0 = 2.811249e-001  
PA1 = 6.921798e-002  
PA2 = -5.448185e-009

PTCA0 = -1.917098e+002  
PTCA1 = -1.589990e-002  
PTCA2 = 9.610103e-003  
PTCB0 = 2.473400e+001  
PTCB1 = 4.000000e-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	20.6	21.4	14.69	0.00	32.50	39.33
301.45	4165.2	21.6	301.36	-0.01	29.00	37.89
588.36	8315.8	21.7	588.26	-0.01	24.00	35.20
875.38	12470.2	21.7	875.24	-0.01	18.50	32.90
1162.48	16631.6	21.7	1162.52	0.00	15.00	31.61
1449.48	20790.3	21.7	1449.42	-0.00	4.50	30.29
1162.54	16633.1	21.7	1162.62	0.01	1.00	29.84
875.50	12475.2	21.7	875.59	0.01		
588.55	8321.7	21.8	588.67	0.01	TEMPERATURE (°C)	SPAN (mV)
301.46	4166.9	22.5	301.45	-0.00	-5.00	24.73
14.64	20.8	22.6	14.67	0.00	35.00	24.75

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

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

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

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

