

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: 3770
CALIBRATION DATE: 04-Mar-15

SBE 37 PRESSURE CALIBRATION DATA
FSR: 1450 psia S/N 6036

COEFFICIENTS:

PA0 = 7.866619e-001
PA1 = 6.905437e-002
PA2 = -3.692928e-009

PTCA0 = -1.515528e+002
PTCA1 = 4.843444e-001
PTCA2 = 2.656836e-004
PTCB0 = 2.477262e+001
PTCB1 = -1.075000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION					THERMAL CORRECTION	
PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS	TEMP ITS90	INST OUTPUT
14.75	61.8	23.2	14.75	-0.00	32.50	86.37
315.02	4406.4	23.2	314.99	-0.00	29.00	84.83
615.02	8749.4	23.1	614.98	-0.00	24.00	82.62
915.03	13094.7	23.1	914.98	-0.00	18.50	79.50
1214.98	17441.8	23.1	1214.98	-0.00	15.00	77.60
1464.98	21066.0	23.0	1464.97	-0.00	4.50	72.69
1214.99	17442.3	23.1	1215.01	0.00	1.00	71.05
914.99	13095.3	23.0	915.03	0.00	TEMP (ITS90) SPAN (mV)	
614.99	8750.0	23.0	615.02	0.00		
314.98	4406.9	23.0	315.03	0.00		
14.75	61.6	23.0	14.74	-0.00		
					-5.00	24.78
					35.00	24.73

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

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

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

