

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: 9017
CALIBRATION DATE: 18-Apr-12

SBE 37 PRESSURE CALIBRATION DATA
870 psia S/N 3182129

COEFFICIENTS:

PA0 = 3.366770e-002
PA1 = 2.964336e-003
PA2 = 3.023827e-011
PTEMPA0 = -7.153762e+001
PTEMPA1 = 4.958162e-002
PTEMPA2 = -2.223960e-007

PTCA0 = 5.245774e+005
PTCA1 = 1.853436e+000
PTCA2 = -5.785825e-002
PTCB0 = 2.517350e+001
PTCB1 = 5.000000e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.60	529513.0	1905.0	14.62	0.00
179.81	585201.0	1907.0	179.74	-0.01
359.73	645818.0	1907.0	359.68	-0.01
539.64	706351.0	1908.0	539.59	-0.01
719.57	766826.0	1908.0	719.56	-0.00
874.53	818830.0	1908.0	874.49	-0.00
719.66	766874.0	1908.0	719.70	0.01
539.84	706471.0	1909.0	539.95	0.01
359.89	645899.0	1909.0	359.92	0.00
179.91	585252.0	1910.0	179.89	-0.00
14.61	529522.0	1910.0	14.65	0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2118	529768.00
29.00	2047	529774.62
24.00	1944	529780.34
18.50	1831	529783.90
15.00	1759	529783.58
4.50	1544	529776.27
1.00	1473	529771.08
TEMP (ITS90)		SPAN (mV)
-5.00		25.17
35.00		25.19

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

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

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

Date, Avg Delta P %FS

18-Apr-12 -0.00

