

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9016
CALIBRATION DATE: 06-Dec-12

SBE 37 PRESSURE CALIBRATION DATA
870 psia S/N 3182128

COEFFICIENTS:

PA0 = 5.401167e-002
PA1 = 2.899105e-003
PA2 = 2.432331e-011
PTEMPA0 = -7.289589e+001
PTEMPA1 = 5.058574e-002
PTEMPA2 = -4.862913e-007

PTCA0 = 5.246692e+005
PTCA1 = 1.997321e+000
PTCA2 = -5.215208e-002
PTCB0 = 2.497713e+001
PTCB1 = 2.250000e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.63	529723.0	1916.0	14.65	0.00
179.87	586683.0	1916.0	179.84	-0.00
359.89	648708.0	1917.0	359.90	0.00
539.90	710653.0	1917.0	539.92	0.00
719.89	772526.0	1917.0	719.91	0.00
874.87	825734.0	1917.0	874.85	-0.00
719.91	772528.0	1916.0	719.92	0.00
539.93	710661.0	1916.0	539.94	0.00
359.92	648709.0	1916.0	359.91	-0.00
179.91	586694.0	1916.0	179.87	-0.00
14.63	529722.0	1916.0	14.65	0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2127	529996.00
29.00	2055	530000.76
24.00	1952	530004.55
18.50	1839	530005.79
15.00	1768	530004.82
4.50	1553	529993.13
1.00	1482	529989.37

TEMP (ITS90)	SPAN (mV)
-5.00	24.98
35.00	24.98

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

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

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

Date, Avg Delta P %FS

06-Dec-12 -0.00

