

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6405
CALIBRATION DATE: 01-Dec-10

SBE16plus PRESSURE CALIBRATION DATA
870 psia S/N 2882779

COEFFICIENTS:

PA0 = -2.412462e+000
PA1 = 2.636845e-003
PA2 = 2.517751e-011
PTEMPA0 = -7.823355e+001
PTEMPA1 = 7.154840e+001
PTEMPA2 = -5.286654e+000

PTCA0 = 5.249357e+005
PTCA1 = -3.480172e+001
PTCA2 = -2.727001e-001
PTCB0 = 2.506550e+001
PTCB1 = -1.100000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.66	530483.0	1.6	14.65	-0.00
179.91	593039.0	1.6	179.89	-0.00
359.91	661096.0	1.6	359.88	-0.00
539.93	729080.0	1.6	539.91	-0.00
719.92	796966.0	1.6	719.90	-0.00
874.88	855334.0	1.6	874.86	-0.00
719.92	796986.0	1.6	719.96	0.01
539.93	729107.0	1.6	539.97	0.00
359.94	661114.0	1.6	359.93	-0.00
179.93	593064.0	1.6	179.95	0.00
14.66	530489.0	1.6	14.67	0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	1.80	530051.30
29.00	1.70	530238.19
24.00	1.60	530493.14
18.50	1.50	530741.31
15.00	1.50	530885.96
4.50	1.30	531302.67
1.00	1.20	531450.11

TEMP (ITS90)	SPAN (mV)
-5.00	25.07
35.00	25.03

$y = \text{thermistor output}; t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

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

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

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

Date, Avg Delta P %FS

01-Dec-10 0.00

