

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0088
 CALIBRATION DATE: 01-Jun-09

SBE 49 PRESSURE CALIBRATION DATA
 870 psia S/N 7152

COEFFICIENTS:

PA0 = -1.315704e-001	PTCA0 = 5.197343e+005
PA1 = 2.667474e-003	PTCA1 = -5.727377e-001
PA2 = -8.247160e-012	PTCA2 = -5.684309e-002
PTEMPA0 = -7.206066e+001	PTCB0 = 2.458687e+001
PTEMPA1 = 5.193098e+001	PTCB1 = 1.175000e-003
PTEMPA2 = -8.537421e-001	PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.57	525204.0	1.9	14.55	-0.00
179.82	587242.0	1.9	179.82	0.00
359.83	654837.0	1.9	359.82	-0.00
539.83	722460.0	1.9	539.82	-0.00
719.81	790105.0	1.9	719.80	-0.00
874.77	848375.0	1.9	874.77	0.00
719.82	790119.0	1.9	719.83	0.00
539.85	722473.0	1.9	539.85	-0.00
359.86	654852.0	1.9	359.86	0.00
179.85	587264.0	1.9	179.88	0.00
14.56	525204.0	1.9	14.56	-0.00

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.52	2.09	525630.54
29.01	2.01	525650.08
24.00	1.91	525665.98
18.50	1.80	525681.66
15.00	1.73	525688.19
4.50	1.51	525708.23
1.00	1.44	525711.25

TEMP (ITS90)	SPAN (mV)
-5.00	24.58
35.00	24.63

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

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

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

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

Date, Avg Delta P %FS

01-Jun-09 0.00

