

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6353  
 CALIBRATION DATE: 15-May-09

SBE19plus PRESSURE CALIBRATION DATA  
 870 psia S/N 2940592

**COEFFICIENTS:**

PA0 = 5.252787e-001	PTCA0 = 5.250524e+005
PA1 = 2.631991e-003	PTCA1 = 1.827791e+001
PA2 = 2.293108e-011	PTCA2 = -3.783045e-001
PTEMPA0 = -6.574223e+001	PTCB0 = 2.513975e+001
PTEMPA1 = 5.132032e+001	PTCB1 = 9.500000e-004
PTEMPA2 = -2.539482e-001	PTCB2 = 0.000000e+000

**PRESSURE SPAN CALIBRATION**

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.75	530668.0	1.6	14.75	-0.00
180.04	593462.0	1.7	180.01	-0.00
360.04	661784.0	1.7	360.03	-0.00
540.06	730022.0	1.7	540.04	-0.00
720.07	798192.0	1.7	720.08	0.00
875.03	856794.0	1.7	875.01	-0.00
720.07	798199.0	1.7	720.09	0.00
540.09	730050.0	1.7	540.10	0.00
360.07	661809.0	1.7	360.09	0.00
180.08	593493.0	1.7	180.09	0.00
14.76	530679.0	1.7	14.77	0.00

**THERMAL CORRECTION**

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	1.93	530785.49
29.00	1.86	530790.91
24.00	1.76	530800.52
18.50	1.66	530791.76
15.00	1.59	530777.55
4.50	1.38	530668.00
1.00	1.31	530594.93

  

TEMP (ITS90)	SPAN (mV)
-5.00	25.14
35.00	25.17

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

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

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

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

Date, Avg Delta P %FS

● 15-May-09 0.00

