

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0436  
CALIBRATION DATE: 10-May-04

SBE19 PRESSURE CALIBRATION DATA  
500 psia S/N 195991 TCV: 44

QUADRATIC COEFFICIENTS:

PA0 = 2.503958e+002  
PA1 = -6.513991e-002  
PA2 = 5.552726e-008

STRAIGHT LINE FIT:

M = -6.512197e-002  
B = 2.507156e+002

PRESSURE PSIA	INST OUTPUT(N)	COMPUTED PSIA	ERROR %FS	LINEAR PSIA	ERROR %FS
14.60	3634.7	14.37	-0.05	14.02	-0.12
99.62	2325.7	99.20	-0.08	99.26	-0.07
199.70	784.5	199.33	-0.07	199.63	-0.01
299.69	-754.5	299.57	-0.02	299.85	0.03
399.69	-2285.4	399.55	-0.03	399.54	-0.03
499.69	-3813.1	499.58	-0.02	499.03	-0.13
399.69	-2291.0	399.92	0.05	399.91	0.04
299.70	-761.4	300.03	0.07	300.30	0.12
199.70	775.4	199.92	0.04	200.22	0.10
99.70	2314.8	99.91	0.04	99.97	0.05
14.60	3624.9	15.00	0.08	14.65	0.01

Straight Line Fit:

$$\text{Pressure (psia)} = M * N + B \quad (N = \text{binary output})$$

Quadratic Fit:

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

$$\text{Residual} = (\text{instrument pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

Date, Avg Delta P %FS

10-May-04 -0.00

