

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: 0775
CALIBRATION DATE: 22-Sep-04

SBE19 PRESSURE CALIBRATION DATA
500 psia S/N 164921 TCV: 410

QUADRATIC COEFFICIENTS:
PA0 = 2.510220e+002
PA1 = -6.543617e-002
PA2 = 6.867238e-008

STRAIGHT LINE FIT:
M = -6.541265e-002
B = 2.514137e+002

PRESSURE PSIA	INST OUTPUT(N)	COMPUTED PSIA	ERROR %FS	LINEAR PSIA	ERROR %FS
14.71	3625.0	14.72	0.00	14.29	-0.08
99.80	2320.1	99.57	-0.05	99.65	-0.03
199.80	787.8	199.52	-0.06	199.88	0.02
299.79	-743.6	299.72	-0.02	300.05	0.05
399.79	-2266.7	399.70	-0.02	399.69	-0.02
499.78	-3785.0	499.68	-0.02	499.00	-0.16
399.79	-2271.1	399.99	0.04	399.97	0.04
299.79	-748.1	300.01	0.04	300.35	0.11
199.80	781.6	199.92	0.02	200.28	0.10
99.80	2314.7	99.93	0.02	100.00	0.04
14.71	3623.8	14.80	0.02	14.37	-0.07

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

● 22-Sep-04 0.00

