

# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

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

SENSOR SERIAL NUMBER: 0436  
CALIBRATION DATE: 07-Apr-06

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

**QUADRATIC COEFFICIENTS:**

PA0 = 2.503408e+002  
PA1 = -6.515952e-002  
PA2 = 5.691571e-008

**STRAIGHT LINE FIT:**

M = -6.514128e-002  
B = 2.506683e+002

PRESSURE PSIA	INST OUTPUT(N)	COMPUTED PSIA	ERROR %FS	LINEAR PSIA	ERROR %FS
14.64	3631.0	14.50	-0.03	14.14	-0.10
99.75	2322.0	99.35	-0.08	99.41	-0.07
199.75	785.0	199.23	-0.10	199.53	-0.04
299.74	-755.0	299.57	-0.03	299.85	0.02
399.73	-2286.0	399.59	-0.03	399.58	-0.03
499.72	-3812.0	499.56	-0.03	498.99	-0.15
399.72	-2293.0	400.05	0.07	400.04	0.06
299.73	-764.0	300.16	0.09	300.44	0.14
199.73	774.0	199.94	0.04	200.25	0.10
99.75	2312.0	100.00	0.05	100.06	0.06
14.64	3624.0	14.95	0.06	14.60	-0.01

**Straight Line Fit:**

Pressure (psia) = M \* N + B (N = binary output)

**Quadratic Fit:**

pressure (psia) = PA0 + PA1 \* N + PA2 \* N<sup>2</sup>

Residual = (instrument pressure - true pressure) \* 100 / Full Scale Range

