



SEA-BIRD ELECTRONICS, INC.

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

Telephone: (206) 643-9866 Telex: 292915 SBEI UR Fax: (206) 643-9954

SBE 194652-775

27 October 1993

Pressure calibration: PAINE 211-75-710-02 500 psia S/N 164921

Temperature Compensation (TC) value = 410

Straight Line Fit:

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

$$M = -0.06542 \quad B = 251.49$$

Quadratic Fit:

$$\text{Pressure(psia)} = A0 + A1 * N + A2 * N * N \quad (N = \text{binary output})$$

$$A0 = 251.01361 \quad A1 = -6.540695e-02 \quad A2 = 7.217299e-08$$

Pressure (psi)	Output (N)	Straight Line Fit		Quadratic Fit	
		error, psi	error, %FS	error, psi	error, %FS
14.80	<u>3626.42</u>	-0.545	-0.11	-0.030	-0.01
100.06	<u>2318.15</u>	-0.222	-0.04	-0.282	-0.06
200.12	<u>784.48</u>	0.047	0.01	-0.372	-0.07
300.18	<u>-747.89</u>	0.231	0.05	-0.209	-0.04
400.24	<u>-2274.98</u>	0.069	0.01	-0.053	-0.01
500.30	<u>-3794.37</u>	-0.597	-0.12	-0.069	-0.01
400.24	<u>-2279.73</u>	0.380	0.08	0.259	0.05
300.18	<u>-756.07</u>	0.766	0.15	0.327	0.07
200.12	<u>776.33</u>	0.580	0.12	0.160	0.03
100.06	<u>2310.75</u>	0.262	0.05	0.200	0.04
14.79	<u>3623.96</u>	-0.374	-0.07	0.139	0.03

Output binary values are averages of 101 samples taken at 2 Hz.

SEASOFT Versions 3.3M and higher will prompt for A0, A1, and A2

SEASOFT Versions 3.3L and lower will prompt for M and B