

SBE 194652-0775

19 May 1993

Pressure calibration: PAINE 211-75-710-01 300 psia S/N 148171

Straight Line Fit:

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

$$M = -0.03914 \quad B = 150.07$$

Quadratic Fit:

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

$$A0 = 149.88615 \quad A1 = -3.913103e-02 \quad A2 = 2.932031e-08$$

Pressure (psi)	Output (N)	Straight Line Fit		Quadratic Fit	
		error, psi	error, %FS	error, psi	error, %FS
14.59	<u>3469.08</u>	-0.297	-0.10	-0.100	-0.03
60.04	<u>2304.17</u>	-0.152	-0.05	-0.163	-0.05
120.07	<u>767.63</u>	-0.042	0.01	-0.205	-0.07
180.11	<u>-768.39</u>	0.038	0.01	-0.139	-0.05
240.14	<u>-2300.24</u>	-0.034	-0.01	-0.088	-0.03
300.18	<u>-3829.75</u>	-0.209	-0.07	-0.002	-0.00
240.14	<u>-2303.23</u>	0.083	0.03	0.029	0.01
180.11	<u>-779.58</u>	0.476	0.16	0.300	0.10
120.07	<u>759.72</u>	0.268	0.09	0.104	0.03
60.04	<u>2297.03</u>	0.127	0.04	0.116	0.04
14.59	<u>3462.72</u>	-0.048	-0.02	0.148	0.05

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