

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0826  
 CALIBRATION DATE: 29-May-07

SBE 37 PRESSURE CALIBRATION DATA  
 1500 psia S/N 192106

## COEFFICIENTS:

PA0 = 9.167134e+000  
 PA1 = 6.011143e-002  
 PA2 = 2.009370e-008

PTCA0 = 0.000000e+000  
 PTCA1 = 3.111274e+000  
 PTCA2 = 2.814527e-002  
 PTCB0 = 0.000000e+000  
 PTCB1 = 0.000000e+000  
 PTCB2 = 0.000000e+000

## PRESSURE SPAN CALIBRATION

| PRESSURE<br>PSIA | INST<br>OUTPUT | TEMP<br>ITS90 | COMPUTED<br>PRESSURE | ERROR<br>%FS |
|------------------|----------------|---------------|----------------------|--------------|
| 14.66            | 170.3          | 21.7          | 14.55                | -0.01        |
| 311.62           | 5091.1         | 21.9          | 310.79               | -0.05        |
| 608.55           | 10005.6        | 22.0          | 607.66               | -0.06        |
| 905.69           | 14914.9        | 22.0          | 905.21               | -0.03        |
| 1202.91          | 19803.6        | 22.0          | 1202.47              | -0.03        |
| 1500.00          | 24679.6        | 22.1          | 1499.90              | -0.01        |
| 1202.88          | 19818.9        | 22.1          | 1203.39              | 0.03         |
| 905.70           | 14936.2        | 22.1          | 906.49               | 0.05         |
| 608.67           | 10033.1        | 22.1          | 609.30               | 0.04         |
| 311.41           | 5115.3         | 22.4          | 312.12               | 0.05         |
| 14.65            | 178.4          | 22.3          | 14.89                | 0.02         |

## THERMAL CORRECTION

| TEMP<br>ITS90 | INST<br>OUTPUT | TEMP<br>ITS90 | SPAN<br>MV |
|---------------|----------------|---------------|------------|
| 32.50         | 237.50         |               |            |
| 29.00         | 221.00         |               |            |
| 24.00         | 197.50         |               |            |
| 18.50         | 174.60         |               |            |
| 15.00         | 158.50         |               |            |
| 4.50          | 123.00         |               |            |
| 1.00          | 108.90         |               |            |

$$n = \text{instrument output} - (\text{PTCA1} * t - \text{PTCA2} * t^2)$$

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

Date, Avg Delta P %FS

29-May-07 -0.00

