

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0818

CALIBRATION DATE: 22-Sep-15

SBE 37 PRESSURE CALIBRATION DATA

FSR: 1500 psia S/N 192102

## COEFFICIENTS:

PA0 = 1.126571e+001

PA1 = 6.025381e-002

PA2 = 1.861525e-008

PTCA1 = 3.801008e+000

PTCA2 = 5.642977e-002

| PRESSURE SPAN CALIBRATION |                |               |                      |              | THERMAL CORRECTION |                |
|---------------------------|----------------|---------------|----------------------|--------------|--------------------|----------------|
| PRESSURE<br>PSIA          | INST<br>OUTPUT | TEMP<br>ITS90 | COMPUTED<br>PRESSURE | ERROR<br>%FS | TEMP<br>ITS90      | INST<br>OUTPUT |
| 14.62                     | 181.1          | 24.8          | 14.39                | -0.01        | 32.50              | 266.10         |
| 311.42                    | 5090.8         | 24.9          | 310.66               | -0.05        | 29.00              | 240.80         |
| 608.43                    | 9995.0         | 24.9          | 607.51               | -0.06        | 24.00              | 207.49         |
| 905.42                    | 14890.1        | 24.9          | 904.69               | -0.05        | 18.50              | 173.20         |
| 1202.40                   | 19770.6        | 24.9          | 1201.89              | -0.03        | 15.00              | 149.60         |
| 1499.28                   | 24639.6        | 24.9          | 1499.26              | -0.00        | 4.50               | 106.23         |
| 1202.37                   | 19787.2        | 25.0          | 1202.87              | 0.03         | 1.00               | 83.78          |
| 905.35                    | 14914.7        | 25.0          | 906.16               | 0.05         |                    |                |
| 608.40                    | 10025.3        | 25.0          | 609.30               | 0.06         |                    |                |
| 311.36                    | 5114.9         | 25.1          | 312.01               | 0.04         |                    |                |
| 14.61                     | 191.5          | 25.1          | 14.89                | 0.02         |                    |                |

t = temperature (ITS90 °C)

n = instrument output - (PTCA1 \* t + PTCA2 \* t<sup>2</sup>)

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

