

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0416

CALIBRATION DATE: 22-Sep-15

SBE 37 PRESSURE CALIBRATION DATA

FSR: 1500 psia S/N 189025

## COEFFICIENTS:

PA0 = 4.669019e+000

PA1 = 6.002372e-002

PA2 = 2.107153e-008

PTCA1 = -1.152078e+000

PTCA2 = 2.925505e-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                     | 154.6          | 24.8          | 14.58                | -0.00        | 32.50              | 172.50         |
| 311.42                    | 5079.1         | 24.9          | 310.71               | -0.05        | 29.00              | 168.30         |
| 608.43                    | 9995.3         | 24.9          | 607.37               | -0.07        | 24.00              | 166.68         |
| 905.42                    | 14907.7        | 24.9          | 904.81               | -0.04        | 18.50              | 166.80         |
| 1202.40                   | 19800.0        | 24.9          | 1202.04              | -0.02        | 15.00              | 166.20         |
| 1499.28                   | 24674.9        | 24.9          | 1499.22              | -0.00        | 4.50               | 177.60         |
| 1202.37                   | 19811.4        | 25.0          | 1202.73              | 0.02         | 1.00               | 173.87         |
| 905.35                    | 14930.5        | 25.0          | 906.19               | 0.06         |                    |                |
| 608.40                    | 10026.9        | 25.0          | 609.28               | 0.06         |                    |                |
| 311.36                    | 5100.2         | 25.1          | 311.98               | 0.04         |                    |                |
| 14.61                     | 157.1          | 25.1          | 14.73                | 0.01         |                    |                |

t = temperature (ITS90 °C)

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

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

