

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0816

CALIBRATION DATE: 11-Sep-14

SBE 37 PRESSURE CALIBRATION DATA

FSR: 1500 psia S/N 192112

## COEFFICIENTS:

PA0 = 4.476453e+000

PA1 = 5.996939e-002

PA2 = 2.130941e-008

PTCA1 = 4.724728e-001

PTCA2 = -4.372706e-003

| 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 |
| 14.74                     | 179.4          | 23.0          | 14.72                | -0.00        | 32.50              | 192.20         |
| 315.13                    | 5160.9         | 23.0          | 314.03               | -0.07        | 29.00              | 191.98         |
| 615.12                    | 10138.7        | 23.0          | 614.16               | -0.06        | 24.00              | 190.82         |
| 915.13                    | 15103.6        | 23.0          | 914.57               | -0.04        | 18.50              | 188.85         |
| 1215.17                   | 20048.3        | 23.0          | 1214.81              | -0.02        | 15.00              | 187.45         |
| 1515.08                   | 24974.6        | 23.0          | 1514.96              | -0.01        | 4.50               | 184.10         |
| 1215.13                   | 20060.5        | 23.0          | 1215.55              | 0.03         | 1.00               | 182.01         |
| 915.14                    | 15127.4        | 23.0          | 916.02               | 0.06         |                    |                |
| 615.12                    | 10169.5        | 23.0          | 616.02               | 0.06         |                    |                |
| 315.16                    | 5190.6         | 23.0          | 315.81               | 0.04         |                    |                |
| 14.75                     | 184.5          | 23.0          | 15.03                | 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>

