# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1246
CALIBRATION DATE: 16-Apr-12

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193467

COEFFICIENTS:

| | | | |
|---|---|---|---|
| PA0 = | 1.082760e+000 | PTCA0 = | 1.461573e+002 |
| PA1 = | 6.010052e-002 | PTCA1 = | 8.089169e-001 |
| PA2 = | 2.499426e-008 | PTCA2 = | -1.122977e-003 |
| | | PTCB0 = | 3.012700e+001 |
| | | PTCB1 = | -4.000000e-004 |
| | | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

| PRESSURE PSIA | INST OUTPUT | TEMP ITS90 | COMPUTED PRESSURE | ERROR %FS |
|---|---|---|---|---|
| 14.58 | 383.2 | 23.0 | 14.25 | -0.02 |
| 314.89 | 5372.1 | 23.0 | 314.86 | -0.00 |
| 614.89 | 10320.9 | 22.8 | 614.28 | -0.04 |
| 914.91 | 15258.6 | 22.7 | 914.25 | -0.04 |
| 1214.98 | 20180.2 | 22.7 | 1214.45 | -0.03 |
| 1515.02 | 25090.6 | 22.7 | 1515.18 | 0.01 |
| 1214.95 | 20194.4 | 22.7 | 1215.32 | 0.02 |
| 914.91 | 15276.2 | 22.7 | 915.32 | 0.03 |
| 614.91 | 10341.5 | 22.8 | 615.53 | 0.04 |
| 314.90 | 5381.0 | 22.7 | 315.41 | 0.03 |
| 14.58 | 389.3 | 22.3 | 14.65 | 0.00 |

THERMAL CORRECTION

| TEMP ITS90 | INST OUTPUT | TEMP ITS90 | SPAN MV |
|---|---|---|---|
| 32.50 | 407.10 | 0.00 | 30.13 |
| 29.00 | 404.30 | 30.00 | 30.11 |
| 24.00 | 400.56 | | |
| 18.50 | 396.88 | | |
| 15.00 | 393.58 | | |
| 4.50 | 385.45 | | |
| 1.00 | 382.78 | | |

x = pressure output - PTCA0 - PTCA1 * t - PTCA2 * $t^2$

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * $t^2$)

pressure (psia) = PA0 + PA1 * n + PA2 * $n^2$