# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 28-Sep-15

SBE 37 PRESSURE CALIBRATION DATA
FSR: 1500 psia S/N 193472

COEFFICIENTS:

| | | | |
|---|---|---|---|
| PA0 = | 9.516254e-002 | PTCA0 = | -1.514375e+002 |
| PA1 = | 6.010107e-002 | PTCA1 = | 1.331373e-001 |
| PA2 = | 2.078541e-008 | PTCA2 = | -2.792294e-003 |
| | | PTCB0 = | 2.980200e+001 |
| | | PTCB1 = | -0.000000e+000 |
| | | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

| PRESSURE PSIA | INST OUTPUT | TEMP ITS90 | COMPUTED PRESSURE | ERROR %FS |
|---|---|---|---|---|
| 14.62 | 93.5 | 22.7 | 14.72 | 0.01 |
| 311.51 | 5007.7 | 23.0 | 310.62 | -0.06 |
| 608.43 | 9921.0 | 23.0 | 607.47 | -0.06 |
| 905.36 | 14822.9 | 23.0 | 904.63 | -0.05 |
| 1202.31 | 19707.4 | 23.0 | 1201.73 | -0.04 |
| 1499.18 | 24579.5 | 23.0 | 1499.07 | -0.01 |
| 1202.30 | 19726.2 | 23.0 | 1202.88 | 0.04 |
| 905.38 | 14851.9 | 23.1 | 906.39 | 0.07 |
| 608.44 | 9956.5 | 23.1 | 609.62 | 0.08 |
| 311.47 | 5023.7 | 23.1 | 311.59 | 0.01 |
| 14.62 | 96.2 | 23.1 | 14.88 | 0.02 |

THERMAL CORRECTION

| TEMP ITS90 | INST OUTPUT |
|---|---|
| 32.50 | 105.90 |
| 29.00 | 105.18 |
| 24.00 | 105.24 |
| 18.50 | 105.57 |
| 15.00 | 105.92 |
| 4.50 | 104.68 |
| 1.00 | 104.04 |

| TEMP (ITS90) | SPAN (mV) |
|---|---|
| 0.00 | 29.80 |
| 30.00 | 29.80 |

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

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

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