

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2355
CALIBRATION DATE: 18-Aug-11

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 1422

COEFFICIENTS:

PA0 = -3.348224e-001
PA1 = 6.887296e-002
PA2 = -4.093633e-009

PTCA0 = -1.881789e+002
PTCA1 = -1.225413e-001
PTCA2 = -3.969306e-003
PTCB0 = 2.481675e+001
PTCB1 = -1.250000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

| PRESSURE PSIA | INST OUTPUT | TEMP ITS90 | COMPUTED PRESSURE | ERROR %FS |
|------------------|----------------|---------------|----------------------|--------------|
| 14.70 | 25.4 | 22.8 | 14.73 | 0.00 |
| 314.96 | 4380.8 | 22.6 | 314.95 | -0.00 |
| 615.00 | 8735.3 | 22.6 | 614.96 | -0.00 |
| 914.98 | 13092.1 | 22.5 | 914.96 | -0.00 |
| 1215.01 | 17451.5 | 22.4 | 1214.98 | -0.00 |
| 1465.07 | 21086.3 | 22.5 | 1465.03 | -0.00 |
| 1214.96 | 17452.0 | 22.5 | 1215.03 | 0.00 |
| 914.94 | 13092.6 | 22.5 | 914.99 | 0.00 |
| 614.94 | 8735.1 | 22.6 | 614.94 | -0.00 |
| 314.97 | 4381.2 | 22.5 | 314.97 | -0.00 |
| 14.70 | 24.9 | 22.5 | 14.69 | -0.00 |

THERMAL CORRECTION

| TEMP ITS90 | INST OUTPUT | TEMP ITS90 | SPAN MV |
|---------------|----------------|---------------|------------|
| 32.50 | 35.18 | -5.00 | 24.82 |
| 29.00 | 34.26 | 35.00 | 24.77 |
| 24.00 | 36.59 | | |
| 18.50 | 39.06 | | |
| 15.00 | 40.15 | | |
| 4.50 | 41.76 | | |
| 1.00 | 42.00 | | |

$$x = \text{pressure output} - \text{PTCA0} - \text{PTCA1} * t - \text{PTCA2} * t^2$$

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

$$\text{pressure (psia)} = \text{PA0} + \text{PA1} * n + \text{PA2} * n^2$$

Date, Avg Delta P %FS

18-Aug-11 0.00

