

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2355
CALIBRATION DATE: 28-Sep-16

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 1422

COEFFICIENTS:

| | | | |
|-------|----------------|---------|----------------|
| PA0 = | -2.924743e-001 | PTCA0 = | -1.889371e+002 |
| PA1 = | 6.889197e-002 | PTCA1 = | 1.089100e-001 |
| PA2 = | -4.651123e-009 | PTCA2 = | -1.274652e-002 |
| | | PTCB0 = | 2.481675e+001 |
| | | PTCB1 = | -1.250000e-003 |
| | | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | TEMPERATURE (°C) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) | TEMP (°C) | INSTRUMENT OUTPUT (counts) |
|--------------------|-------------------------------|---------------------|-----------------------------|--------------------|------------------|-------------------------------|
| 14.66 | 23.9 | 23.0 | 14.68 | 0.00 | 32.50 | 28.69 |
| 301.29 | 4180.8 | 23.1 | 301.30 | 0.00 | 29.00 | 31.15 |
| 588.33 | 8345.4 | 23.1 | 588.30 | -0.00 | 24.00 | 34.06 |
| 875.34 | 12513.3 | 23.1 | 875.35 | 0.00 | 18.50 | 36.38 |
| 1162.34 | 16682.6 | 23.1 | 1162.34 | 0.00 | 15.00 | 37.35 |
| 1449.35 | 20854.4 | 23.1 | 1449.34 | -0.00 | 4.50 | 38.82 |
| 1162.38 | 16683.1 | 23.2 | 1162.39 | 0.00 | 1.00 | 38.87 |
| 875.34 | 12513.2 | 23.2 | 875.35 | 0.00 | | |
| 588.45 | 8350.6 | 23.2 | 588.66 | 0.01 | | |
| 301.39 | 4181.7 | 23.4 | 301.38 | -0.00 | TEMPERATURE (°C) | SPAN (mV) |
| 14.66 | 23.1 | 23.5 | 14.64 | -0.00 | -5.00 | 24.82 |
| | | | | | 35.00 | 24.77 |

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

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

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

$$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

