Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1640 CALIBRATION DATE: 30-Nov-15

SBE 39 PRESSURE CALIBRATION DATA 508 psia S/N 5733

COEFFICIENTS:

| PA0 = | 9.114745e-002 | PTCA0 = | 7.437131e+001 |
|---------|----------------|---------|----------------|
| PA1 = | 2.385740e-002 | PTCA1 = | 4.297140e-001 |
| PA2 = | 1.488594e-009 | PTCA2 = | -1.172502e-002 |
| PTHA0 = | -8.779137e+001 | PTCB0 = | 2.526988e+001 |
| PTHA1 = | 4.613098e-002 | PTCB1 = | -2.025000e-003 |
| PTHA2 = | -3.705923e-007 | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | THERMISTOR OUTPUT (counts) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) | TEMP (°C) | THERMISTOR OUTPUT (counts) | INSTRUMENT OUTPUT (counts) |
|--------------------|----------------------------|----------------------------|-----------------------------|--------------------|--------------|----------------------------|----------------------------|
| 14.66 | 687.9 | 2418.0 | 14.66 | 0.00 | -1.50 | 1899.60 | 696.10 |
| 104.93 | 4463.1 | 2431.0 | 104.92 | -0.00 | 1.00 | 1955.50 | 696.99 |
| 204.94 | 8644.1 | 2430.0 | 204.93 | -0.00 | 4.50 | 2033.80 | 698.15 |
| 304.95 | 12823.5 | 2431.0 | 304.95 | -0.00 | 8.00 | 2112.30 | 699.26 |
| 404.95 | 17000.6 | 2430.0 | 404.96 | 0.00 | 11.50 | 2191.00 | 700.07 |
| 504.97 | 21174.5 | 2429.0 | 504.95 | -0.00 | 15.00 | 2269.70 | 700.44 |
| 404.96 | 17001.2 | 2430.0 | 404.98 | 0.00 | 18.50 | 2348.30 | 700.57 |
| 304.96 | 12824.6 | 2429.0 | 304.97 | 0.00 | 22.00 | 2427.30 | 700.37 |
| 204.95 | 8645.5 | 2429.0 | 204.96 | 0.00 | 25.50 | 2506.50 | 700.08 |
| 104.95 | 4464.3 | 2429.0 | 104.95 | -0.00 | 29.00 | 2585.40 | 699.26 |
| 14.66 | 688.1 | 2428.0 | 14.67 | 0.00 | 32.50 | 2664.60 | 698.10 |

TEMPERATURE (°C) SPAN (mV)
-5.00 25.28
35.00 25.20

y = thermistor output (counts)

 $t = PTHA0 + PTHA1 * y + PTHA2 * y^2$

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

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

