

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: 1851
CALIBRATION DATE: 19-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.695685e-006
a1 = 2.762059e-004
a2 = -2.371666e-006
a3 = 1.585866e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 634080.6 | 1.0000 | 0.0000 |
| 4.5000 | 543175.7 | 4.5000 | -0.0000 |
| 15.0000 | 348024.5 | 15.0000 | -0.0000 |
| 18.5000 | 301854.3 | 18.5001 | 0.0001 |
| 24.0000 | 242765.7 | 24.0000 | -0.0000 |
| 29.0000 | 200332.7 | 28.9999 | -0.0001 |
| 32.4999 | 175691.7 | 32.4999 | 0.0000 |

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

