

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: 0813
CALIBRATION DATE: 11-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.447767e-005
a1 = 2.719639e-004
a2 = -2.189264e-006
a3 = 1.538352e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| -1.5000 | 743590.6 | -1.4999 | 0.0001 |
| 1.0000 | 664038.3 | 0.9999 | -0.0001 |
| 4.5000 | 568374.6 | 4.5000 | -0.0000 |
| 8.0000 | 488076.1 | 8.0000 | -0.0000 |
| 11.5000 | 420447.4 | 11.5000 | 0.0000 |
| 15.0000 | 363301.2 | 15.0001 | 0.0001 |
| 18.5000 | 314859.9 | 18.5000 | 0.0000 |
| 22.0000 | 273669.0 | 22.0000 | -0.0000 |
| 25.5000 | 238537.1 | 25.4999 | -0.0001 |
| 29.0000 | 208484.5 | 28.9999 | -0.0001 |
| 32.5000 | 182702.8 | 32.5001 | 0.0001 |

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

Residual = instrument temperature - bath temperature

