

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: 0454
CALIBRATION DATE: 01-May-15

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 5.687952e-005
a1 = 2.674767e-004
a2 = -1.940351e-006
a3 = 1.383275e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000 | 712335.1 | 1.0001 | 0.0001 |
| 4.5000 | 607885.1 | 4.4998 | -0.0002 |
| 14.9999 | 385270.0 | 15.0000 | 0.0001 |
| 18.4999 | 333013.7 | 18.5000 | 0.0001 |
| 24.0000 | 266429.5 | 23.9999 | -0.0001 |
| 29.0000 | 218856.7 | 28.9999 | -0.0001 |
| 32.5000 | 191341.1 | 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

n = instrument output

