

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: 1433
CALIBRATION DATE: 12-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.365560e-005

a1 = 2.697787e-004

a2 = -2.151767e-006

a3 = 1.433687e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	767992.2	-1.5000	0.0000
1.0000	684052.7	1.0000	-0.0000
4.5000	583441.7	4.5000	-0.0000
8.0000	499302.2	8.0000	-0.0000
11.5000	428690.4	11.5000	0.0000
15.0000	369232.9	15.0000	0.0000
18.5000	319001.4	18.5000	0.0000
22.0000	276428.4	22.0000	-0.0000
25.5000	240233.8	25.4999	-0.0001
29.0000	209367.9	29.0000	-0.0000
32.5000	182968.6	32.5000	0.0000

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

