

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: 0805
CALIBRATION DATE: 11-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.260166e-006
a1 = 2.724598e-004
a2 = -2.130427e-006
a3 = 1.525612e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	763544.7	-1.4999	0.0001
1.0000	682273.8	0.9999	-0.0001
4.5000	584474.3	4.4999	-0.0001
8.0000	502315.7	8.0000	-0.0000
11.5000	433064.0	11.5000	0.0000
15.0000	374500.6	15.0002	0.0002
18.5000	324821.4	18.5001	0.0001
22.0000	282545.3	21.9999	-0.0001
25.5000	246460.2	25.4999	-0.0001
29.0000	215569.5	28.9999	-0.0001
32.5000	189048.9	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

