

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: 3936

CALIBRATION DATE: 16-Sep-14

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.166919e-005

a1 = 2.726490e-004

a2 = -2.035044e-006

a3 = 1.478680e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	642714.4	1.0000	0.0001
4.5000	550519.4	4.4999	-0.0001
15.0000	352654.0	15.0001	0.0001
18.4999	305857.8	18.5000	0.0001
24.0000	245971.9	23.9999	-0.0001
29.0000	202969.9	29.0000	0.0000
32.5000	178001.7	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

n = instrument output

