

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: 0476
CALIBRATION DATE: 30-Oct-13

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.748050e-005

a1 = 2.734393e-004

a2 = -2.296728e-006

a3 = 1.515742e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	805769.3	1.0000	0.0000
4.4999	689284.6	4.4999	-0.0000
15.0000	439867.7	14.9999	-0.0001
18.5000	381023.5	18.5002	0.0002
24.0000	305841.1	24.0000	-0.0000
29.0000	251951.3	28.9999	-0.0001
32.5000	220701.2	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

