

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: 0812
CALIBRATION DATE: 08-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.406864e-004
a1 = 3.304794e-004
a2 = -6.289294e-006
a3 = 2.536451e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	614948.2	1.0000	0.0000
4.5000	526862.4	4.5000	-0.0000
15.0000	337779.4	15.0000	-0.0000
18.5000	293049.7	18.5000	0.0000
24.0000	235806.5	24.0000	0.0000
29.0000	194701.6	28.9999	-0.0001
32.5000	170831.1	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

