

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: 0827
CALIBRATION DATE: 09-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.108913e-004
a1 = 3.261395e-004
a2 = -6.029464e-006
a3 = 2.497378e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	596968.2	0.9998	-0.0002
4.4999	511516.7	4.5002	0.0003
15.0000	328050.7	14.9998	-0.0002
18.5000	284629.7	18.4999	-0.0001
24.0000	229050.6	24.0002	0.0002
29.0000	189133.6	29.0002	0.0002
32.5000	165953.1	32.4998	-0.0002

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

