

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: 1858
CALIBRATION DATE: 20-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.216998e-005
a1 = 2.858480e-004
a2 = -3.057833e-006
a3 = 1.783244e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	616246.2	1.0000	-0.0000
4.5000	528340.2	4.5001	0.0001
15.0000	339337.5	14.9999	-0.0001
18.5001	294542.7	18.5001	0.0000
24.0000	237160.9	24.0001	0.0001
29.0000	195910.0	28.9999	-0.0001
32.4999	171934.3	32.4999	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

