

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: 2336
CALIBRATION DATE: 31-Jan-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.466122e-004
a1 = 3.728376e-004
a2 = -1.110841e-005
a3 = 4.119775e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	663548.3	1.0000	-0.0000
4.5000	568159.7	4.5000	0.0000
15.0000	363124.7	15.0000	-0.0000
18.5000	314596.0	18.5000	-0.0000
24.0000	252507.7	24.0001	0.0001
29.0000	207959.7	28.9999	-0.0001
32.5000	182114.5	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

