

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: 3936
CALIBRATION DATE: 01-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.069593e-005
a1 = 2.918790e-004
a2 = -3.531362e-006
a3 = 1.866727e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	642702.6	1.0000	0.0000
4.5000	550515.4	4.4999	-0.0001
15.0000	352653.2	15.0001	0.0001
18.5000	305856.5	18.5000	-0.0000
24.0000	245972.7	23.9999	-0.0001
28.9999	202975.5	29.0000	0.0001
32.5000	178010.9	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

