

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: 1679
CALIBRATION DATE: 01-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.890686e-005
a1 = 2.811388e-004
a2 = -2.746534e-006
a3 = 1.675450e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	658501.9	1.0000	0.0000
4.5000	564099.0	4.5000	-0.0000
15.0001	361438.5	15.0001	-0.0000
18.5000	313493.3	18.5001	0.0001
24.0000	252131.1	24.0000	0.0000
28.9999	208067.9	28.9998	-0.0001
32.5000	182477.6	32.5001	0.0001

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

