

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: 0219
CALIBRATION DATE: 01-Feb-17

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.034251e-006
a1 = 2.764172e-004
a2 = -2.547929e-006
a3 = 1.552645e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	710516.4	1.0000	-0.0000
4.5000	606907.7	4.5000	0.0000
15.0000	385709.9	15.0000	-0.0000
18.5000	333682.8	18.5001	0.0001
24.0000	267322.4	24.0000	-0.0000
29.0000	219849.2	29.0000	0.0000
32.5000	192366.0	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

