

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: 0204
CALIBRATION DATE: 24-Mar-16

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.357972e-006
a1 = 2.667348e-004
a2 = -1.630897e-006
a3 = 1.348219e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	751586.1	1.0000	-0.0000
4.5000	643465.4	4.5000	0.0000
15.0000	411645.3	15.0000	0.0000
18.5001	356867.8	18.5000	-0.0001
24.0000	286807.3	24.0000	0.0000
29.0000	236532.5	29.0000	0.0000
32.5000	207355.1	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

