

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: 0604
CALIBRATION DATE: 05-Mar-15

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.256308e-005
a1 = 2.683498e-004
a2 = -2.103681e-006
a3 = 1.407256e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	907144.6	-1.5000	0.0001
0.9999	807880.4	0.9998	-0.0001
4.5000	688914.1	4.4999	-0.0001
7.9999	589441.5	8.0000	0.0001
11.4999	505980.7	11.5000	0.0001
15.0000	435713.7	15.0000	0.0000
18.4999	376361.6	18.5000	0.0001
22.0000	326067.7	21.9999	-0.0001
25.4999	283315.9	25.4999	-0.0000
29.0000	246864.6	28.9999	-0.0001
32.4999	215693.8	32.5000	0.0001

Temperature ITS-90 = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output

