

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: 14-Mar-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 3.081538e-005
a1 = 2.687411e-004
a2 = -2.132903e-006
a3 = 1.414543e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	907137.8	-1.49997	0.00003
1.00000	807871.6	0.99998	-0.00002
4.50000	688909.5	4.49994	-0.00006
8.00000	589438.6	7.99999	-0.00001
11.50000	505977.5	11.50003	0.00003
15.00000	435711.7	15.00004	0.00004
18.50000	376359.6	18.50006	0.00006
22.00010	326065.5	22.00005	-0.00005
25.50000	283314.9	25.49996	-0.00004
29.00010	246863.3	29.00006	-0.00004
32.50000	215693.6	32.50005	0.00005

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

