

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: 0605
CALIBRATION DATE: 12-Feb-14

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.661733e-005
a1 = 2.728694e-004
a2 = -2.350203e-006
a3 = 1.489535e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	816066.4	-1.49997	0.00003
1.00000	727230.1	0.99996	-0.00004
4.50000	620684.8	4.49999	-0.00001
8.00000	531522.6	7.99996	-0.00004
11.50000	456644.8	11.50004	0.00004
15.00000	393554.4	15.00004	0.00004
18.50000	340220.6	18.50001	0.00001
22.00000	294989.8	22.00001	0.00001
25.50000	256513.0	25.49995	-0.00005
29.00000	223681.6	28.99997	-0.00003
32.50000	195585.4	32.50004	0.00004

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

