

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: 1777
CALIBRATION DATE: 03-Jul-12

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 7.429673e-005
a1 = 2.721669e-004
a2 = -2.273262e-006
a3 = 1.484609e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	685042.9	-1.5000	0.0000
1.0000	610422.8	1.0000	-0.0000
4.5000	520937.7	4.5000	-0.0000
8.0002	446056.6	8.0002	-0.0000
11.5001	383186.3	11.5001	-0.0000
14.9998	330218.5	14.9999	0.0001
18.5000	285441.8	18.5000	0.0000
22.0000	247474.4	22.0000	-0.0000
25.5000	215178.0	25.5000	0.0000
28.9999	187625.2	28.9998	-0.0001
32.4999	164046.1	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

