

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: 1640
CALIBRATION DATE: 13-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.274732e-005
a1 = 2.778283e-004
a2 = -2.421360e-006
a3 = 1.579679e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	769260.7	-1.4999	0.0001
1.0000	687517.1	0.9999	-0.0001
4.5000	589135.2	4.4999	-0.0001
8.0000	506469.9	8.0000	-0.0000
11.5000	436777.3	11.5001	0.0001
15.0000	377829.7	15.0001	0.0001
18.5000	327812.3	18.5000	-0.0000
22.0000	285238.0	21.9999	-0.0001
25.5000	248890.1	25.5000	-0.0000
29.0000	217767.3	29.0000	0.0000
32.5001	191042.0	32.5001	0.0000

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

