

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 17-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.130229e-005
a1 = 2.727410e-004
a2 = -2.252184e-006
a3 = 1.555225e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	743595.3	-1.5000	0.0000
0.9999	664042.2	0.9999	-0.0000
4.4999	568377.7	4.4999	0.0000
8.0000	488078.1	8.0000	-0.0000
11.5000	420447.8	11.5000	0.0000
15.0000	363301.2	15.0000	0.0000
18.5000	314859.0	18.5000	0.0000
22.0000	273667.7	22.0000	-0.0000
25.5000	238534.4	25.5000	0.0000
29.0000	208481.9	29.0000	-0.0000
32.5000	182700.8	32.5000	0.0000

Temperature ITS-90 = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

