

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA
 Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0219
 CALIBRATION DATE: 23-Jul-09

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -5.714242e-006
 a1 = 2.792481e-004
 a2 = -2.773781e-006
 a3 = 1.612426e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	710478.3	1.0000	0.0001
4.5000	606878.2	4.4999	-0.0001
15.0000	385682.3	15.0000	-0.0000
18.4999	333657.0	18.5001	0.0002
23.9999	267300.9	23.9998	-0.0001
29.0000	219829.6	28.9999	-0.0001
32.5000	192345.7	32.5001	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

