

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: 0275
 CALIBRATION DATE: 21-Dec-05

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -3.577105e-006
 a1 = 2.761876e-004
 a2 = -2.313495e-006
 a3 = 1.574670e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	706558.4	-1.49998	0.00002
1.00000	631549.2	0.99998	-0.00002
4.50000	541259.5	4.49999	-0.00001
8.00000	465380.5	8.00000	-0.00000
11.50000	401397.8	11.50000	0.00000
15.00000	347269.3	15.00002	0.00002
18.50000	301332.0	18.50002	0.00002
22.00000	262225.8	21.99998	-0.00002
25.50000	228833.8	25.50002	0.00002
29.00010	200238.2	29.00004	-0.00006
32.50000	175680.4	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

Date, Delta T (mdeg C)

21-Dec-05 0.00

