

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: 1865
CALIBRATION DATE: 21-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 5.264925e-005
a1 = 2.671454e-004
a2 = -1.594548e-006
a3 = 1.410270e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	581900.9	0.9999	-0.0001
4.5000	498885.1	4.5001	0.0001
15.0000	320413.8	14.9998	-0.0002
18.5000	278114.6	18.5001	0.0001
23.9999	223930.3	23.9999	-0.0000
29.0000	184971.7	29.0001	0.0001
32.5000	162330.3	32.4999	-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

