

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: 4285
CALIBRATION DATE: 20-Jan-11

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.273516e-003

a1 = 2.560739e-004

a2 = 7.322348e-007

a3 = 1.190241e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	623832.909	1.0000	-0.0000
4.4999	553931.909	4.5000	0.0001
15.0000	380419.917	14.9999	-0.0001
18.5000	333829.333	18.5000	0.0000
24.0000	270586.818	24.0000	0.0000
29.0000	222454.455	29.0000	0.0000
32.5001	193386.909	32.5001	-0.0000

$MV = (n - 524288) / 1.6e+007$

$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$

Temperature ITS-90 = $1 / \{ a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)] \} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

