

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: 6628
CALIBRATION DATE: 11-Jun-11

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.315857e-003
a1 = 2.569148e-004
a2 = 2.040750e-007
a3 = 1.318015e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	595641.333	1.0000	-0.0000
4.5000	526276.154	4.5000	0.0000
15.0000	355889.417	15.0000	-0.0000
18.5000	310634.923	18.5000	-0.0000
24.0000	249589.250	24.0001	0.0001
29.0000	203461.769	29.0000	-0.0000
32.5000	175756.833	32.5000	0.0000

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

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

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

Residual = instrument temperature - bath temperature

