

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA  
Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0361  
CALIBRATION DATE: 04-Mar-14

SBE 45 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 9.691258e-005  
a1 = 2.615250e-004  
a2 = -1.496658e-006  
a3 = 1.257546e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	689028.5	1.0000	-0.0000
4.5000	587643.6	4.5000	0.0000
15.0000	371830.3	15.0000	-0.0000
18.4999	321231.0	18.4999	0.0000
23.9999	256800.2	24.0000	0.00001
29.0000	210802.8	28.9999	-0.00001
32.5000	184214.1	32.5000	0.0000

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

