

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: 0360
CALIBRATION DATE: 14-Mar-12

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 4.406546e-005

a1 = 2.740750e-004

a2 = -2.446457e-006

a3 = 1.512296e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	674678.6	1.0000	0.0000
4.5000	575615.3	4.5000	-0.0000
15.0000	364587.7	15.0001	0.0001
18.5000	315076.1	18.4999	-0.0001
23.9999	252002.9	24.0000	0.0001
29.0000	206956.0	28.9999	-0.0001
32.5000	180907.8	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

