

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: 0013
CALIBRATION DATE: 17-Nov-12

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.771682e-005
a1 = 2.801842e-004
a2 = -2.614672e-006
a3 = 1.666984e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	636824.4	1.0000	-0.0000
4.5000	546048.0	4.5000	0.0000
15.0000	350823.9	15.0000	-0.0000
18.5000	304546.8	18.5000	-0.0000
24.0000	245253.5	24.0000	0.0000
29.0001	202619.7	29.0001	-0.0000
32.5000	177838.1	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

