

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: 0019
CALIBRATION DATE: 17-Feb-13

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.224326e-004
a1 = 3.132117e-004
a2 = -4.871123e-006
a3 = 2.178724e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	713644.8	1.0001	0.0001
4.5000	612253.6	4.4998	-0.0002
15.0000	394028.9	15.0002	0.0002
18.5000	342268.2	18.4999	-0.0001
24.0000	275908.6	24.0000	0.0000
29.0000	228169.8	28.9999	-0.0001
32.5001	200403.5	32.5002	0.0001

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

