

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: 1251
CALIBRATION DATE: 30-Oct-13

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -9.685960e-006
a1 = 2.817846e-004
a2 = -2.695322e-006
a3 = 1.682422e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	578635.4	1.0000	-0.0000
4.4999	496028.5	4.5000	0.0001
15.0000	318471.5	15.0000	-0.0000
18.5000	276407.0	18.5000	-0.0000
24.0000	222527.2	24.0001	0.0001
29.0000	183800.6	29.0000	0.0000
32.5000	161295.9	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

