

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: 0092
CALIBRATION DATE: 05-Feb-15

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.872940e-005
a1 = 2.858320e-004
a2 = -3.148471e-006
a3 = 1.771517e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	628125.1	1.0000	-0.0000
4.5000	537716.8	4.5000	0.0000
15.0000	343881.5	15.0000	0.0000
18.5000	298086.2	18.5000	-0.0000
24.0000	239522.1	23.9999	-0.0001
29.0000	197502.3	29.0002	0.0002
32.5000	173122.5	32.4999	-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

n = instrument output

