

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: 1433
CALIBRATION DATE: 25-Nov-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.249250e-005
a1 = 2.700455e-004
a2 = -2.171991e-006
a3 = 1.438746e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	767997.4	-1.5000	0.0000
1.0000	684057.5	1.0000	-0.0000
4.5000	583444.9	4.5000	-0.0000
8.0000	499303.6	8.0000	-0.0000
11.5000	428691.5	11.5000	0.0000
15.0000	369233.2	15.0000	0.0000
18.5000	319001.2	18.5000	0.0000
22.0000	276428.0	22.0000	0.0000
25.5000	240233.3	25.5000	-0.0000
29.0000	209367.8	28.9999	-0.0001
32.5000	182967.9	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

