

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: 2355

CALIBRATION DATE: 30-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.829975×10^{-5}

a1 = 2.840159×10^{-4}

a2 = -3.053246×10^{-6}

a3 = 1.694016×10^{-7}

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	811413.8	1.0000	0.0000
4.5000	694091.7	4.4999	-0.0001
15.0000	442917.2	15.0000	0.0000
18.5000	383668.7	18.5001	0.0001
24.0000	307970.8	23.9999	-0.0001
29.0000	253713.8	29.0000	0.0000
32.5000	222256.3	32.5000	0.0000

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

