

# 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: 1853

CALIBRATION DATE: 29-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -3.955389e-005

a1 = 2.858754e-004

a2 = -3.096110e-006

a3 = 1.785502e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	623067.7	0.9999	0.0000
4.5000	533976.4	4.4999	-0.0001
15.0000	342555.9	15.0000	0.0000
18.4999	297231.1	18.4999	-0.0000
23.9999	239189.5	24.0000	0.0001
29.0000	197488.3	28.9998	-0.0002
32.5000	173258.8	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

