

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: 0206
CALIBRATION DATE: 15-Feb-17

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.138586e-005
a1 = 2.842187e-004
a2 = -2.349018e-006
a3 = 1.469163e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	556368.0	0.9999	-0.0001
4.4999	476976.2	4.5001	0.0002
15.0000	306458.4	14.9998	-0.0002
18.5000	266075.0	18.5000	0.0000
24.0000	214356.4	24.0001	0.0001
29.0000	177182.0	29.0001	0.0001
32.5000	155576.6	32.4999	-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

