

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0150
CALIBRATION DATE: 12-Feb-16

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.810064e-004
a1 = 3.210294e-004
a2 = -5.468545e-006
a3 = 2.303522e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	566601.8	1.0000	0.0000
4.5000	485296.6	4.5000	-0.0000
15.0000	310904.8	15.0000	-0.0000
18.5000	269680.0	18.5001	0.0001
23.9999	216943.8	23.9999	-0.0000
29.0000	179086.4	29.0000	0.0000
32.5000	157109.8	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

