

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0517
CALIBRATION DATE: 06-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 7.295569e-005
a1 = 2.661110e-004
a2 = -1.841539e-006
a3 = 1.434494e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	725554.3	-1.5000	0.0000
1.0000	647346.6	1.0000	0.0000
4.5000	553407.8	4.5000	-0.0000
8.0001	474651.8	8.0000	-0.0001
11.5000	408401.9	11.5001	0.0001
15.0000	352487.9	15.0001	0.0001
18.5000	305144.6	18.5000	0.0000
22.0000	264932.0	22.0000	-0.0000
25.5000	230672.6	25.4999	-0.0001
29.0000	201396.8	29.0000	-0.0000
32.5000	176308.6	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

