

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0097

CALIBRATION DATE: 21-Aug-14

SBE 35 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

a0 = 4.21434294e-003

a1 = -1.11573659e-003

a2 = 1.71918587e-004

a3 = -9.61114348e-006

a4 = 2.06229982e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT (n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.499960	715527.56	-1.499929	0.000031
1.000010	639682.42	0.999966	-0.000044
4.500040	548094.74	4.500018	-0.000022
8.000010	470917.43	8.000033	0.000023
11.500050	405724.16	11.500091	0.000041
15.000040	350519.40	15.000045	0.000005
18.500030	303652.79	18.500006	-0.000024
22.000030	263762.51	21.999995	-0.000035
25.499950	229722.83	25.499941	-0.000009
28.999920	200599.02	28.999976	0.000056
32.500060	175616.83	32.500037	-0.000023

Temperature ITS-90 = $1/\{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] + a_4[\ln^4(n)] \} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

