

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0083

CALIBRATION DATE: 21-Aug-14

SBE 35 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

a0 = 5.10618922e-003

a1 = -1.39717817e-003

a2 = 2.04395828e-004

a3 = -1.12843510e-005

a4 = 2.38408441e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT (n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.499960	808487.39	-1.499928	0.000032
1.000010	722592.36	0.999955	-0.000055
4.500040	618860.56	4.500036	-0.000004
8.000010	531455.39	8.000026	0.000016
11.500050	457633.78	11.500097	0.000047
15.000040	395139.30	15.000046	0.000006
18.500030	342102.15	18.499984	-0.000046
22.000030	296977.12	22.000002	-0.000028
25.499950	258487.91	25.499937	-0.000013
28.999920	225572.33	29.000004	0.000084
32.500060	197352.13	32.500021	-0.000039

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

