

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0072
CALIBRATION DATE: 03-Jan-12

SBE 35 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 4.82905052e-003
a1 = -1.32514924e-003
a2 = 1.97012668e-004
a3 = -1.09263880e-005
a4 = 2.32339011e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT (n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.500160	734119.39	-1.500140	0.000020
0.999830	657832.20	0.999796	-0.000034
4.499860	565447.96	4.499853	-0.000007
7.999890	487341.77	7.999913	0.000023
11.499940	421152.45	11.499966	0.000026
14.999980	364927.48	14.999964	-0.000016
22.000010	276174.95	21.999966	-0.000044
25.500050	241193.00	25.500057	0.000007
29.000090	211178.43	29.000142	0.000052
32.500210	185360.77	32.500183	-0.000027

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

