

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1773  
CALIBRATION DATE: 04-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -2.913410e-005  
a1 = 2.767723e-004  
a2 = -2.359968e-006  
a3 = 1.562489e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	778846.9	-1.5000	0.0000
0.9999	696021.6	0.9999	0.0000
4.5000	596347.7	4.4999	-0.0001
8.0000	512607.5	8.0000	-0.0000
11.4999	442017.7	11.5000	0.0001
15.0000	382316.8	15.0000	0.0000
18.5000	331665.0	18.5000	0.0000
22.0000	288556.9	22.0000	-0.0000
25.4999	251757.5	25.4999	0.0000
29.0000	220251.3	28.9999	-0.0001
32.4999	193200.0	32.4999	0.0000

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

Residual = instrument temperature - bath temperature

n = instrument output

