

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0046  
CALIBRATION DATE: 10-Nov-12

SBE 48 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 1.671759e-005  
a1 = 2.713466e-004  
a2 = -2.224218e-006  
a3 = 1.448249e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	772764.6	1.0000	0.0000
4.5000	659574.4	4.5000	-0.0000
15.0000	418263.4	15.0000	0.0000
18.5000	361595.0	18.5000	0.0000
24.0000	289375.2	24.0000	-0.0000
29.0000	237764.3	29.0000	-0.0000
32.5000	207907.6	32.5000	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

