

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0605  
CALIBRATION DATE: 21-Jan-15

SBE 38 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 2.429994e-005  
a1 = 2.734349e-004  
a2 = -2.395640e-006  
a3 = 1.501556e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	816086.6	-1.5000	0.0000
1.0000	727245.2	1.0000	0.0000
4.5000	620697.8	4.5000	-0.0000
8.0000	531531.1	8.0000	-0.0000
11.5000	456651.7	11.5000	0.0000
15.0000	393558.9	15.0000	0.0000
18.5000	340222.9	18.5000	0.0000
22.0000	294990.8	22.0000	0.0000
25.5000	256513.2	25.4999	-0.0001
29.0000	223680.8	29.0000	-0.0000
32.5000	195584.3	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

n = instrument output

