

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6826
CALIBRATION DATE: 20-Nov-15

SBE 16plus V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.318121e-003
a1 = 2.523336e-004
a2 = 6.920426e-007
a3 = 1.109736e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	618309.700	1.0000	0.0000
4.5000	547293.900	4.5000	0.0000
15.0000	371946.364	14.9999	-0.0001
18.5001	325156.300	18.5002	0.0001
24.0000	261910.100	24.0000	0.0000
29.0000	214013.182	28.9998	-0.0002
32.4999	185201.900	32.5000	0.0001

n = Instrument Output (counts)

$MV = (n - 524288) / 1.6e+007$

$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$

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

Residual (°C) = instrument temperature - bath temperature

