

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4547
CALIBRATION DATE: 09-Dec-16

SBE 19plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.214428e-003
a1 = 2.597517e-004
a2 = -5.509590e-008
a3 = 1.431917e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	741502.763	1.0000	-0.0000
4.4999	664205.254	4.5000	0.0001
15.0000	467075.000	14.9999	-0.0001
18.4999	412865.119	18.4998	-0.0001
24.0000	338408.475	24.0002	0.0002
29.0000	281095.746	28.9998	-0.0002
32.5000	246209.322	32.5001	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 / {a0 + a1[ln(R)] + a2[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

