

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6520
CALIBRATION DATE: 24-Apr-12

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.305048e-003
a1 = 2.551938e-004
a2 = 3.914122e-007
a3 = 1.231191e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	622990.700	1.0000	0.0000
4.4999	551775.900	4.4999	-0.0000
15.0000	375677.700	14.9999	-0.0001
18.5000	328625.700	18.5001	0.0001
24.0000	264974.600	24.0000	-0.0000
29.0000	216731.300	28.9999	-0.0001
32.5000	187695.400	32.5001	0.0001

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

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

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

Residual = instrument temperature - bath temperature

