

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6629
CALIBRATION DATE: 10-Jun-11

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.235093e-003
a1 = 2.540243e-004
a2 = 4.581042e-007
a3 = 1.170086e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	756064.900	1.0000	0.0001
4.4999	677374.600	4.4998	-0.0001
14.9999	476257.500	15.0000	0.0001
18.5000	420876.909	18.5001	0.0001
24.0000	344803.400	23.9998	-0.0002
28.9999	286230.455	29.0000	0.0001
32.5000	250593.364	32.5000	-0.0000

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

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

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

Residual = instrument temperature - bath temperature

