

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4287
CALIBRATION DATE: 10-Jul-12

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.266876e-003
a1 = 2.579820e-004
a2 = 5.323612e-007
a3 = 1.269574e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	623727.800	1.0000	0.0000
4.5000	553888.000	4.4999	-0.0001
15.0000	380504.200	15.0000	-0.0000
18.5000	333940.800	18.5002	0.0002
24.0000	270733.800	23.9999	-0.0001
29.0000	222619.364	29.0000	-0.0000
32.5000	193559.909	32.5000	0.0000

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

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

$$\text{Temperature ITS-90} = 1 / \{ a0 + a1[\ln(R)] + a2[\ln^2(R)] + a3[\ln^3(R)] \} - 273.15 \text{ (}^\circ\text{C)}$$

Residual = instrument temperature - bath temperature

