

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0211
CALIBRATION DATE: 07-Nov-14

UCTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 9.070096e-004
a1 = 2.713300e-004
a2 = -1.471777e-006
a3 = 1.781897e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	716835.600	1.0000	-0.0000
4.5000	632448.500	4.5000	0.0000
15.0000	419424.400	15.0000	0.0000
18.5000	361364.500	18.4999	-0.0001
24.0000	281962.200	24.0001	0.0001
28.9999	221093.800	28.9998	-0.0001
32.4999	184148.800	32.4999	0.0000

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

$$R = (MV * 2.295e+010 + 9.216e+008) / (6.144e+004 - MV * 5.3e+005)$$

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

$$\text{Residual} = \text{instrument temperature} - \text{bath temperature}$$

