

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0210
CALIBRATION DATE: 07-Nov-14

UCTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 9.176174e-004
a1 = 2.634210e-004
a2 = -6.136487e-007
a3 = 1.400856e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	756595.300	1.0000	0.0000
4.5000	669631.400	4.5000	-0.0000
15.0000	448464.600	15.0002	0.0002
18.5000	387807.000	18.4996	-0.0004
24.0000	304582.000	24.0002	0.0002
28.9999	240595.200	28.9999	-0.0000
32.4999	201681.000	32.4999	-0.0000

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

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

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

Residual = instrument temperature - bath temperature

