



Sea-Bird Scientific  
 13431 NE 20<sup>th</sup> Street  
 Bellevue, WA 98005  
 USA

+1 425-643-9866  
 seabird@seabird.com  
 www.seabird.com

SENSOR SERIAL NUMBER: 0026  
 CALIBRATION DATE: 25-Oct-18

Glider Payload CTD TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.895849e-005  
 a1 = 2.970433e-004  
 a2 = -3.658231e-006  
 a3 = 1.791494e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	580317.0	1.0001	0.0001
4.4999	496320.7	4.4998	-0.0001
14.9999	316657.7	15.0000	0.0001
18.5000	274314.8	18.5001	0.0001
24.0000	220238.4	23.9999	-0.0001
29.0000	181493.0	28.9999	-0.0001
32.5000	159032.2	32.5001	0.0001

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

