



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: 9324  
 CALIBRATION DATE: 27-Feb-21

Slocum Payload CTD TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.858365e-04  
 a1 = 3.205763e-04  
 a2 = -5.343805e-06  
 a3 = 2.254336e-07

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	567324.4	0.9998	-0.0002
4.4999	485978.2	4.5002	0.0003
15.0000	311500.2	14.9997	-0.0003
18.5000	270243.0	18.4999	-0.0001
24.0000	217454.6	24.0002	0.0002
29.0001	179558.0	29.0002	0.0001
32.4999	157556.4	32.4998	-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

