



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

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

SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 20-Apr-18

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.534455e-006
a1 = 2.901262e-004
a2 = -3.330740e-006
a3 = 1.704748e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	570407.5	0.9998	-0.0002
4.4999	487063.5	4.5002	0.0003
14.9999	309345.2	14.9998	-0.0001
18.5000	267587.9	18.4997	-0.0003
24.0000	214344.9	24.0003	0.0003
29.0000	176281.6	29.0002	0.0002
32.5000	154255.6	32.4998	-0.0002

n = Instrument Output (counts)

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

