



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

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

SENSOR SERIAL NUMBER: 0026
CALIBRATION DATE: 23-Dec-17

Glider Payload CTD TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.258078e-005
a1 = 2.856593e-004
a2 = -2.727272e-006
a3 = 1.537891e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	580347.4	1.0000	-0.0000
4.5000	496322.3	4.5001	0.0001
15.0000	316648.3	15.0001	0.0001
18.5000	274310.4	18.4998	-0.0002
24.0000	220231.9	24.0001	0.0001
29.0000	181488.7	29.0001	0.0001
32.5000	159030.4	32.4999	-0.0001

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

