



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

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

SENSOR SERIAL NUMBER: 9087
CALIBRATION DATE: 02-Nov-19

Slocum Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.676832e-004
a1 = 3.240149e-004
a2 = -5.866327e-006
a3 = 2.365813e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	571366.0	0.9999	-0.0001
4.5000	488283.6	4.5002	0.0002
15.0000	310844.8	14.9999	-0.0001
18.5000	269089.2	18.4999	-0.0001
24.0000	215806.4	24.0001	0.0001
29.0000	177674.6	29.0002	0.0002
32.5000	155592.8	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

