



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

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

SENSOR SERIAL NUMBER: 4579
CALIBRATION DATE: 10-Jul-17

SBE 41cp TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.656845e-005
a1 = 2.686789e-004
a2 = -2.044638e-006
a3 = 1.389716e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0001	767171.1	1.0001	0.0000
4.5001	654416.1	4.5001	-0.0000
15.0001	414306.7	15.0001	-0.0000
18.5001	357987.3	18.5001	0.0000
23.9941	286330.3	23.9942	0.0001
29.0001	235045.5	29.0000	-0.0001
32.5001	205433.1	32.5002	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

