



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

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

SENSOR SERIAL NUMBER: 0351
CALIBRATION DATE: 22-Mar-20

Glider APL TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40653495e-003
h = 6.45512159e-004
i = 2.75284807e-005
j = 3.55997412e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3420.878	0.9999	-0.00008
4.5000	3696.776	4.5001	0.00014
15.0000	4619.571	14.9999	-0.00006
18.5000	4960.137	18.4999	-0.00011
24.0000	5529.927	24.0001	0.00008
29.0000	6085.476	29.0001	0.00013
32.5000	6496.078	32.4999	-0.00010

f = Instrument Output (Hz)

Temperature ITS-90 (°C) = $1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

