



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

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

SENSOR SERIAL NUMBER: 0352
CALIBRATION DATE: 20-May-20

Glider APL TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42232704e-003
h = 6.49447715e-004
i = 2.66460084e-005
j = 3.32182975e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3478.843	0.9999	-0.00005
4.5000	3757.182	4.5001	0.00009
15.0000	4686.935	15.0000	-0.00002
18.5000	5029.654	18.4999	-0.00008
24.0000	5602.624	24.0000	-0.00001
29.0000	6160.863	29.0002	0.00017
32.5001	6573.207	32.5000	-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

