



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

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

SENSOR SERIAL NUMBER: 0273
 CALIBRATION DATE: 09-Mar-19

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42199217e-003
 h = 6.44689641e-004
 i = 2.68627563e-005
 j = 3.31518656e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3513.907	1.0000	-0.00001
4.5000	3797.827	4.5000	0.00002
15.0000	4747.847	15.0000	0.00001
18.4999	5098.579	18.4999	0.00002
23.9999	5685.502	23.9997	-0.00018
28.9998	6258.023	29.0001	0.00026
32.4999	6681.264	32.4998	-0.00012

f = Instrument Output (Hz)

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

Residual (°C) = instrument temperature - bath temperature

