



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: 17-May-22

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42396934e-003
 h = 6.48537793e-004
 i = 2.93803612e-005
 j = 3.86407714e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	3514.075	1.0000	0.00012
4.4999	3797.932	4.4997	-0.00023
15.0000	4748.008	15.0002	0.00024
18.4999	5098.724	18.4999	0.00002
23.9999	5685.614	23.9996	-0.00025
29.0000	6258.045	29.0001	0.00008
32.5000	6681.173	32.5000	0.00002

f = Instrument Output (Hz)

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

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

