



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

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

SENSOR SERIAL NUMBER: 0266
 CALIBRATION DATE: 06-Mar-21

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.41900736e-003
 h = 6.50341373e-004
 i = 2.70407519e-005
 j = 3.40439389e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3455.800	1.0000	-0.00004
4.5000	3732.065	4.5001	0.00008
15.0000	4654.833	14.9999	-0.00010
18.5000	4994.978	18.5001	0.00005
24.0000	5563.570	24.0000	-0.00000
29.0000	6117.508	29.0000	0.00005
32.5000	6526.675	32.5000	-0.00004

f = Instrument Output (Hz)

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

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

