



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

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

SENSOR SERIAL NUMBER: 0134
 CALIBRATION DATE: 30-Jan-19

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.33565882e-003
 h = 6.22315321e-004
 i = 2.27951468e-005
 j = 2.37351178e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3152.174	1.0000	0.00000
4.5000	3413.082	4.5000	-0.00000
15.0000	4289.903	15.0000	-0.00002
18.5000	4615.011	18.5000	0.00003
24.0000	5160.617	24.0000	0.00001
29.0000	5694.580	29.0000	-0.00004
32.5000	6090.485	32.5000	0.00002

f = Instrument Output (Hz)

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

Residual (°C) = instrument temperature - bath temperature

