

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0073
 CALIBRATION DATE: 30-Dec-15

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.29423343e-003
 h = 6.28470370e-004
 i = 2.32398866e-005
 j = 2.40966639e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2904.414	1.0000	0.00002
4.5000	3141.519	4.5000	-0.00005
15.0000	3936.969	15.0001	0.00005
18.5000	4231.425	18.5000	-0.00001
24.0000	4725.128	24.0000	-0.00003
29.0000	5207.790	29.0000	-0.00000
32.5000	5565.356	32.5000	0.00001

f = Instrument Output (Hz)

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

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

