

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0136
 CALIBRATION DATE: 25-Dec-15

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.32659049e-003
 h = 6.21476151e-004
 i = 2.26590544e-005
 j = 2.35110254e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3107.569	1.0000	-0.00005
4.5000	3364.889	4.5001	0.00008
15.0000	4229.691	15.0000	-0.00003
18.5000	4550.367	18.4999	-0.00006
24.0000	5088.593	24.0000	0.00002
29.0000	5615.383	29.0001	0.00011
32.5000	6005.955	32.4999	-0.00007

f = Instrument Output (Hz)

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

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

