

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1075  
CALIBRATION DATE: 27-Jul-02s

TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86420415e-03  
h = 6.81526364e-04  
i = 2.63219462e-05  
j = 1.92630999e-06  
f<sub>0</sub> = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68120922e-03  
b = 6.04056648e-04  
c = 1.56578998e-05  
d = 1.92778666e-06  
f<sub>0</sub> = 6360.517

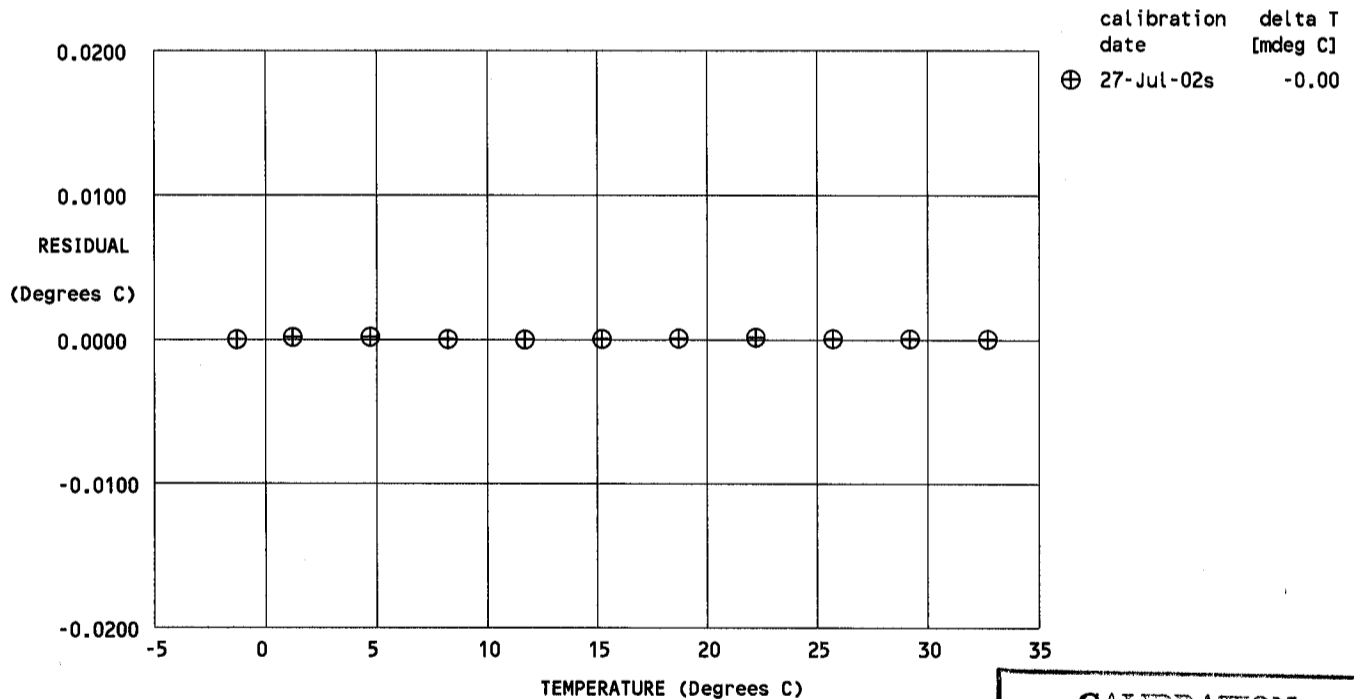
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4997	6360.517	-1.4998	-0.00007
1.0003	6724.644	1.0004	0.00007
4.5003	7259.304	4.5004	0.00010
8.0004	7823.739	8.0003	-0.00007
11.5004	8418.764	11.5003	-0.00007
15.0004	9045.144	15.0004	-0.00004
18.5004	9703.623	18.5004	0.00002
22.0004	10394.918	22.0005	0.00008
25.5004	11119.696	25.5004	-0.00000
29.0004	11878.670	29.0004	-0.00001
32.5004	12672.465	32.5004	-0.00002

Temperature ITS-90 = 1/{g + h[ln(f<sub>0</sub>/f)] + i[ln<sup>2</sup>(f<sub>0</sub>/f)] + j[ln<sup>3</sup>(f<sub>0</sub>/f)]} - 273.15 (°C)

Temperature IPTS-68 = 1/{a + b[ln(f<sub>0</sub>/f)] + c[ln<sup>2</sup>(f<sub>0</sub>/f)] + d[ln<sup>3</sup>(f<sub>0</sub>/f)]} - 273.15 (°C)

Following the recommendation of JPOTS: T<sub>68</sub> is assumed to be 1.00024 \* T<sub>90</sub> (-2 to 35 °C).

Residual = instrument temperature - bath temperature



CALIBRATION  
AFTER  
MODIFICATIONS