

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775  
 CALIBRATION DATE: 30-Jul-96s

TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

**ITS-90 COEFFICIENTS**

g = 4.21362709e-03  
 h = 6.06048777e-04  
 i = 5.80106490e-06  
 j = -1.46177678e-06  
 $f_0 = 1000.000$

**IPTS-68 COEFFICIENTS**

a = 3.64680182e-03  
 b = 5.91291835e-04  
 c = 9.97436617e-06  
 d = -1.46124893e-06  
 $f_0 = 2575.077$

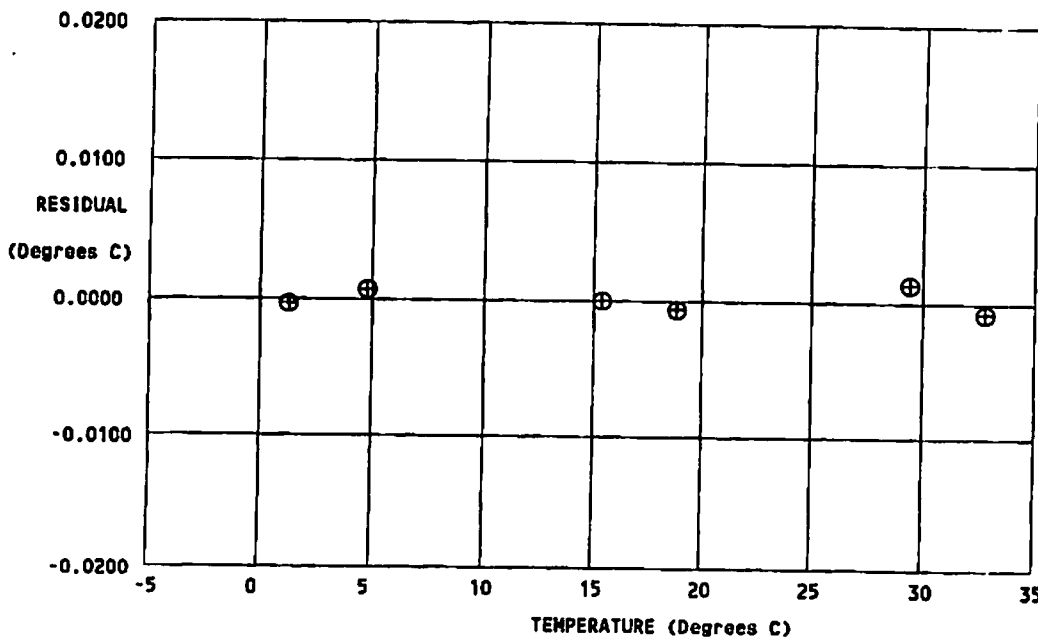
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
1.0630	2575.077	1.0626	-0.00038
4.5670	2783.867	4.5677	0.00066
15.1730	3488.268	15.1729	-0.00005
18.6290	3742.477	18.6283	-0.00070
29.2130	4601.580	29.2143	0.00129
32.5810	4901.140	32.5802	-0.00081

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

Temperature IPTS-68 =  $1/\{a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]\} - 273.15$  (°C)

Following the recommendation of JPOTS:  $T_{68}$  is assumed to be  $1.00024 * T_{90}$  (-2 to 35 °C).

Residual = instrument temperature - bath temperature



calibration date    delta T  
 ⊕ 30-Jul-96s      [mdeg C]  
                          -0.00