

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1335  
CALIBRATION DATE: 18-Nov-99s

CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -4.15649900e+00  
h = 5.25089781e-01  
i = 6.89152453e-05  
j = 2.68973569e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 5.23626017e-05  
b = 5.25147509e-01  
c = -4.15626645e+00  
d = -7.84090205e-05  
m = 3.8  
CPcor = -9.57e-08 (nominal)

BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.81241	-0.00000	-0.00000
-1.3926	35.0236	2.78637	7.79286	2.78635	-0.00002
1.1473	35.0234	3.00478	8.05337	3.00481	0.00003
15.2656	35.0230	4.32008	9.46941	4.32008	0.00000
18.7035	35.0213	4.66267	9.80414	4.66264	-0.00003
29.2468	35.0120	5.75629	10.80228	5.75634	0.00005
32.6861	35.0034	6.12417	11.11736	6.12414	-0.00003

Conductivity =  $(g + hf^2 + if^3 + jf^4) / [10(1 + \delta t + \epsilon p)]$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature [deg C]; p = pressure [decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

