

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4367  
CALIBRATION DATE: 06-Jan-17

SBE 4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -9.80972120e+000  
h = 1.39223256e+000  
i = -1.00319165e-003  
j = 1.36546078e-004

CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

| BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | BATH COND<br>(S/m) | INSTRUMENT<br>OUTPUT (kHz) | INSTRUMENT<br>COND (S/m) | RESIDUAL<br>(S/m) |
|--------------------|-------------------|--------------------|----------------------------|--------------------------|-------------------|
| 0.0000             | 0.0000            | 0.00000            | 2.65606                    | 0.00000                  | 0.00000           |
| -1.0000            | 34.9170           | 2.81193            | 5.22235                    | 2.81194                  | 0.00001           |
| 1.0000             | 34.9171           | 2.98376            | 5.33924                    | 2.98376                  | -0.00000          |
| 15.0000            | 34.9154           | 4.28248            | 6.15098                    | 4.28247                  | -0.00001          |
| 18.5000            | 34.9146           | 4.63000            | 6.35051                    | 4.62999                  | -0.00000          |
| 29.0000            | 34.9115           | 5.71615            | 6.93693                    | 5.71618                  | 0.00003           |
| 32.5000            | 34.9030           | 6.08939            | 7.12718                    | 6.08938                  | -0.00002          |

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars);  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Conductivity (S/m) =  $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

