

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0670
CALIBRATION DATE: 09-Jul-14

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

COEFFICIENTS:

g = -4.31234780e+000
h = 4.57707856e-001
i = 3.33579685e-004
j = 4.65195961e-006

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

| BATH TEMP (ITS-90) | BATH SAL (PSU) | BATH COND (Siemens/m) | INST FREQ (kHz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|-----------------------|-------------------|--------------------------|--------------------|--------------------------|-------------------------|
| 0.0000 | 0.0000 | 0.00000 | 3.06589 | 0.00000 | 0.00000 |
| -1.0000 | 34.7531 | 2.79996 | 8.37359 | 2.79995 | -0.00001 |
| 0.9999 | 34.7536 | 2.97111 | 8.59170 | 2.97112 | 0.00002 |
| 15.0000 | 34.7542 | 4.26480 | 10.08708 | 4.26475 | -0.00005 |
| 18.5000 | 34.7537 | 4.61096 | 10.45062 | 4.61099 | 0.00003 |
| 29.0000 | 34.7541 | 5.69328 | 11.51218 | 5.69331 | 0.00003 |
| 32.5000 | 34.7494 | 6.06564 | 11.85505 | 6.06562 | -0.00002 |

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity

