Sea-Bird GmbH

Postfach 1167, 87401 Kempten, Germany

Phone: +49 831 960994 701 Fax: +49 831 960994 709 Email: seabird.eu@seabird.com

SENSOR SERIAL NUMBER: 3598
CALIBRATION DATE: 03-Apr-13

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

```
g = -1.00185373e+001
h =  1.54772031e+000
i = -3.18666846e-003
j =  3.35718562e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  1.43086045e-007
b =  1.53902913e+000
c = -1.00004869e+001
d = -7.99530343e-005
m =  7.0
CPcor = -9.5700e-008 (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	2.54913	0.00000	0.00000
-1.0000	34.7930	2.80287	4.97024	2.80290	0.00002
1.0000	34.7940	2.97424	5.08088	2.97421	-0.00003
15.0000	34.7927	4.26902	5.84939	4.26905	0.00003
18.5000	34.7915	4.61543	6.03826	4.61541	-0.00002
28.9999	34.7822	5.69735	6.59303	5.69736	0.00001
32.5000	34.7620	6.06759	6.77229	6.06759	-0.00000

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

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

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

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