

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: 3385

CALIBRATION DATE: 08-Dec-16

SBE 21 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -3.99729509e+000

h = 4.71264632e-001

i = -2.57039614e-004

j = 3.80433374e-005

CPcor = -9.5700e-008 (nominal)

CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2.91372	0.00000	0.00000
1.0000	34.8448	2.97817	8.46131	2.97815	-0.00002
4.5000	34.8243	3.28540	8.83640	3.28541	0.00000
15.0000	34.7804	4.26768	9.93946	4.26771	0.00003
18.5000	34.7708	4.61298	10.29859	4.61299	0.00000
24.0000	34.7595	5.17111	10.85337	5.17109	-0.00002
29.0000	34.7515	5.69290	11.34689	5.69286	-0.00003
32.4999	34.7455	6.06503	11.68581	6.06506	0.00003

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = 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

