

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0334
CALIBRATION DATE: 02-Feb-16

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

COEFFICIENTS:

g = -4.22675762e+000
h = 4.71295381e-001
i = -3.82752608e-004
j = 4.28087623e-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)
0.0000	0.0000	0.00000	2.99715	0.00000	0.00000
-1.0000	34.6358	2.79139	8.26022	2.79139	0.00001
1.0000	34.6358	2.96200	8.47599	2.96200	0.00000
15.0000	34.6357	4.25180	9.95474	4.25179	-0.00001
18.5000	34.6356	4.59698	10.31388	4.59696	-0.00002
29.0000	34.6334	5.67572	11.36163	5.67579	0.00006
32.5001	34.6264	6.04662	11.69948	6.04658	-0.00004

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

