

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: 4229

CALIBRATION DATE: 03-Sep-15

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.74051929e+000

h = 1.50386068e+000

i = -1.41804116e-003

j = 1.96057246e-004

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	2.54698	0.00000	0.00000
-1.0001	34.7165	2.79728	5.01138	2.79727	-0.00001
0.9999	34.7170	2.96828	5.12366	2.96829	0.00001
15.0000	34.7190	4.26094	5.90316	4.26092	-0.00002
18.4999	34.7186	4.60680	6.09472	4.60681	0.00001
29.0000	34.7164	5.68780	6.65763	5.68780	0.00001
32.4999	34.7060	6.05892	6.84008	6.05891	-0.00000

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

