

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: 2251

CALIBRATION DATE: 19-Apr-17

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -1.03560195e+001

h = 1.36251481e+000

i = -1.56784173e-003

j = 1.87750799e-004

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	2.75987	0.00000	0.00000
-1.0000	34.7511	2.79981	5.31150	2.79979	-0.00002
1.0000	34.7513	2.97094	5.42864	2.97097	0.00003
15.0000	34.7517	4.26453	6.24274	4.26453	0.00000
18.5000	34.7505	4.61058	6.44295	4.61056	-0.00002
29.0000	34.7423	5.69156	7.03139	5.69159	0.00003
32.5001	34.7269	6.06217	7.22194	6.06215	-0.00002

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

