

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: 0355
CALIBRATION DATE: 24-Jan-17

SBE 19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.11997504e+000
h = 4.91210493e-001
i = 1.31593686e-003
j = -2.70613289e-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	2.88563	0.00000	0.00000
1.0000	34.7958	2.97438	8.22795	2.97434	-0.00004
4.5000	34.7749	3.28120	8.59007	3.28124	0.00003
15.0000	34.7316	4.26232	9.65564	4.26235	0.00003
18.5000	34.7221	4.60722	10.00282	4.60721	-0.00001
24.0000	34.7118	5.16480	10.53955	5.16474	-0.00006
29.0000	34.7056	5.68622	11.01759	5.68625	0.00003
32.5000	34.7010	6.05815	11.34640	6.05862	0.00046

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

