

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: 0497
CALIBRATION DATE: 16-Jul-14

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

COEFFICIENTS:

g = -4.26493121e+000
h = 4.60557604e-001
i = -3.94710878e-004
j = 3.75472795e-005

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	3.04591	0.00000	0.00000
-1.0000	34.6792	2.79456	8.36901	2.79456	0.00000
1.0000	34.6793	2.96537	8.58759	2.96538	0.00001
15.0000	34.6800	4.25666	10.08578	4.25659	-0.00007
18.5000	34.6785	4.60206	10.44973	4.60210	0.00005
29.0000	34.6777	5.68217	11.51193	5.68221	0.00005
32.5000	34.6748	6.05410	11.85507	6.05407	-0.00004

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

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

Residual = instrument conductivity - bath conductivity

