

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: 1029
CALIBRATION DATE: 13-Feb-14

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -4.20083337e+000
h = 5.69110308e-001
i = 4.68527010e-005
j = 2.92678965e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.09741844e-005
b = 5.69233794e-001
c = -4.20132201e+000
d = -8.67019437e-005
m = 3.9
CPcor = -9.5700e-008 (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	2.71605	0.00000	0.00000
-1.0000	34.7613	2.80056	7.50948	2.80056	0.00000
1.0000	34.7617	2.97174	7.70584	2.97175	0.00000
15.0000	34.7613	4.26558	9.05154	4.26557	-0.00001
18.5000	34.7604	4.61175	9.37842	4.61174	-0.00001
29.0001	34.7583	5.69390	10.33265	5.69394	0.00004
32.5000	34.7522	6.06608	10.64060	6.06605	-0.00003

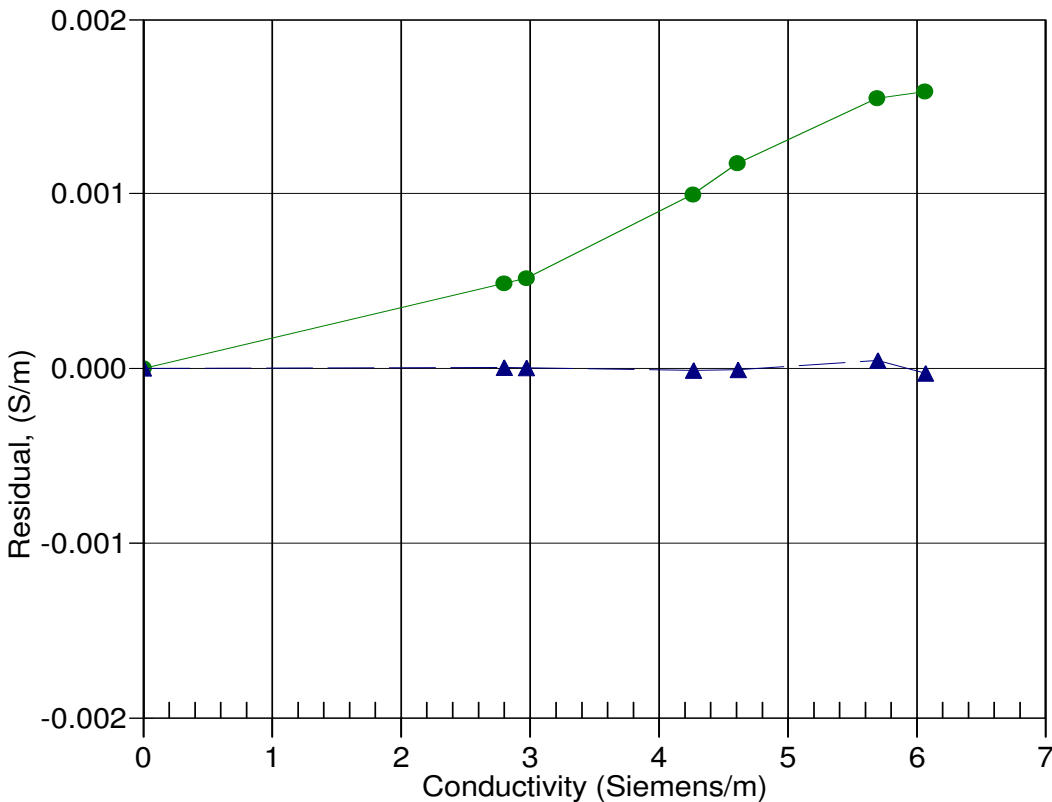
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

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

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



03-Aug-12 0.9997532
13-Feb-14 1.0000000