

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: 0288
CALIBRATION DATE: 30-Jan-14

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.836187e-001
h = 1.585814e-001
i = -2.677077e-004
j = 4.621208e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 3.3420e-007

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2493.49	0.00000	0.00000
1.0000	34.7004	2.96700	4994.13	2.96700	0.00000
4.4999	34.6809	3.27320	5183.44	3.27319	-0.00000
15.0000	34.6389	4.25215	5746.30	4.25214	-0.00000
18.5000	34.6303	4.59635	5931.26	4.59635	-0.00000
24.0000	34.6209	5.15276	6218.36	5.15278	0.00001
28.9999	34.6160	5.67318	6475.04	5.67317	-0.00002
32.5000	34.6133	6.04458	6652.00	6.04459	0.00001

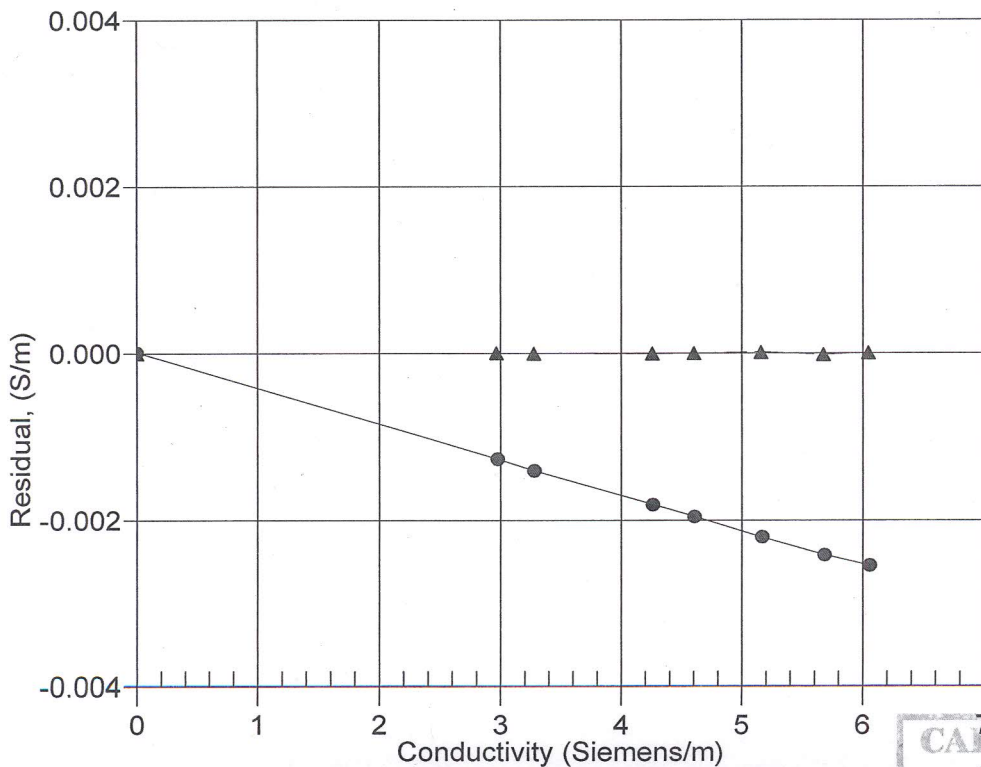
$$f = \text{INST FREQ} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$$

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



**CALIBRATION AFTER
CLEANING AND
REPLATINIZING CELL**