Phone: (425) 643-9866 Fax: (425) 643-9954 www.seabird.com

Conductivity Calibration Report

Customer:	EMS/VOS Nippon		
Job Number:	74141	Date of Report:	6/6/2013
Model Number	SBE 45	Serial Number:	4525798-0028
sensor drift. If the performed after wo functional, or by cut An 'as received' ca conductivity. Users sensor condition dicorrections for drif	calibration identifies a probork is completed. The 'as recustomer request. dibration certificate is provided in the 'as recusion certificate is provided in the 'as recust choose whether the 'as puring deployment. In SEAS	is received', without cleaning or adjustments, blem or indicates cell cleaning is necessary, to elived' calibration is not performed if the sense led, listing the coefficients used to convert sets received' calibration or the previous calibration from the previous calibration coefficients. The coefficients the SEASOFT manual). Calibration coefficients.	hen a second calibration is sor is damaged or non- nsor frequency to ation better represents the fficient 'slope' allows small
'AS RECEIVED		Performed	Not Performed
Date:		Drift since last cal:	PSU/month
Comments:			

*Measured at 3.0 S/m

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: 0028 CALIBRATION DATE: 06-Jun-13

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

COEFFICIENTS:

g = -9.863054e - 001	CPcor = -9.5700e-008
h = 1.294409e-001	CTcor = 3.2500e-006
i = -3.305103e - 004	WBOTC = $1.0240e-006$
+ - 4 2124230-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2766.69	0.00000	0.00000
0.9999	34.8038	2.97499	5543.54	2.97500	0.00001
4.5000	34.7842	3.28199	5753.67	3.28199	-0.00001
15.0000	34.7418	4.26344	6378.24	4.26344	-0.00000
18.5000	34.7328	4.60849	6583.41	4.60848	-0.00000
24.0000	34.7228	5.16625	6901.80	5.16627	0.00001
29.0000	34.7173	5.68793	7186.39	5.68792	-0.00001

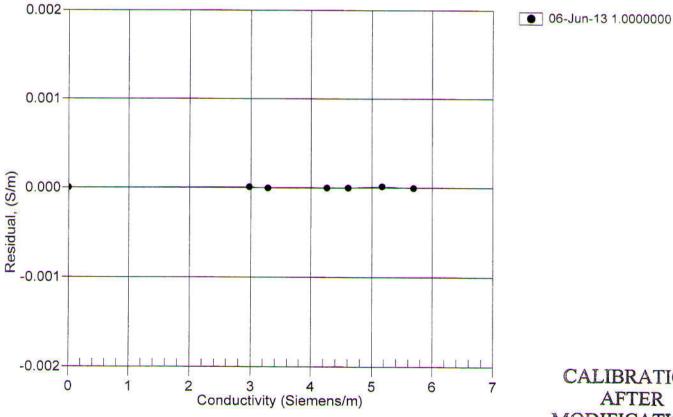
f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

t = temperature[°C); p = pressure[decibars]; $\delta = CTcor$; $\epsilon = CPcor$;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



CALIBRATION AFTER **MODIFICATIONS**

Conductivity Calibration Report

	CONTRACTOR SAME THE PERSON					
Customer:	EMS/VOS Nippor	1				
Job Number:	68841		Date of Repo	rt:	5/23/2	2012
Model Number	SBE 45		Serial Numb	er:	452579	8-0028
sensor drift. If the	calibration identifies a price of the completed. The 'as	ed 'as received', without problem or indicates ce s received' calibration is	ll cleaning is nec	essary, then	a second co	alibration is
conductivity. Users sensor condition du corrections for drift	must choose whether the tring deployment. In So t between calibrations (c apply only to subsequent	ovided, listing the coeffi te 'as received' calibrati EASOFT enter the chos consult the SEASOFT n t data.	ion or the previou en coefficients. aanual). Calibra	us calibratio The coeffici	on better rep ent 'slope' a ients obtaine	oresents the allows small
		_ 12 1				
Date:		Drift sin	ce last cal:			PSU/month*
Date: Comments:		Drift sin	ce last cal:			PSU/month*

*Measured at 3.0 S/m

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SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 22-May-12

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

COEFFICIENTS:

q = -1.034520e+000	CPcor = -9.5700e-008
h = 1.445394e-001	CTcor = 3.2500e-006
i = -2.976732e-004	WBOTC = $6.3756e-006$
j = 4.409474e - 005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2679.60	0.00000	0.00000
1.0000	34.9130	2.98344	5278.69	2.98347	0.00003
4.5000	34.8927	3.29122	5476.38	3.29118	-0.00004
15.0000	34.8496	4.27527	6064.70	4.27528	0.00001
18.5000	34.8401	4.62118	6258.06	4.62119	0.00001
24.0000	34.8297	5.18040	6558.27	5.18040	0.00000
29.0000	34.8228	5.70326	6826.65	5.70324	-0.00002
32.5000	34.8172	6.07613	7011.56	6.07614	0.00001

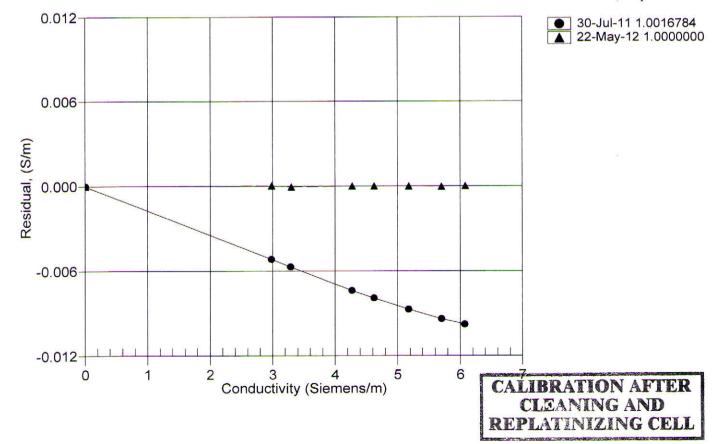
f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

 $t = temperature[^{\circ}C)]; p = pressure[decibars]; \delta = CTcor; \epsilon = CPcor;$

Residual = instrument conductivity - bath conductivity

Date, Slope Correction





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Conductivity Calibration Report

Customer:	EMS/VOS Nippon					
Job Number:	65183	Date	of Repor	t:	8/1/2	011
Model Number	SBE 45	Seria	l Numbe	r:	452579	8-0028
sensor drift. If the	calibration identifies a proork is completed. The 'as r	'as received', without cleanir roblem or indicates cell clean received' calibration is not pe	ing is nece	ssary, then	a second c	alibration is
conductivity. Users sensor condition di coefficient 'slope' d	must choose whether the uring deployment. In SEA ullows small corrections fo	vided, listing the coefficients i 'as received' calibration or to ASOFT enter the chosen coef or drift between calibrations (ng apply only to subsequent d	he previous fficients us consult the	s calibration ing the prog	n better rep gram SEAC	oresents the CON. The
'AS RECEIVED O	CALIBRATION'		✓ Perf	ormed	□ No	Performed
Date: 7/30/2011		Drift since las	t cal:	+0.00	0070	PSU/month*
Comments:						è
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'CALIBRATION	AFTER CLEANING &	& REPLATINIZING'	☐ Perf	ormed	✓ No	Performed
Date:		Drift since La	st cal:			PSU/month*
Comments:					8	
•		et			26	

*Measured at 3.0 S/m

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Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 30-Jul-11

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

COEFFICIENTS:

g = -1.034877e+000 h = 1.442621e-001 i = -1.431364e-004 i = 3.189645e-005

CPcor = -9.5700e-008CTcor = 3.2500e-006

WBOTC = 6.3756e-006

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2679.60	0.00000	0.00000
1.0000	34.8692	2.98006	5273.06	2.98005	-0.00001
4.5000	34.8492	3.28752	5470.48	3.28753	0.00001
15.0000	34.8065	4.27054	6057.80	4.27054	-0.00000
18.5000	34.7976	4.61616	6250.93	4.61616	0.00000
24.0000	34.7875	5.17482	6550.76	5.17482	0.00000
29.0000	34.7810	5.69719	6818.87	5.69717	-0.00002
32.5000	34.7743	6.06949	7003.53	6.06951	0.00001

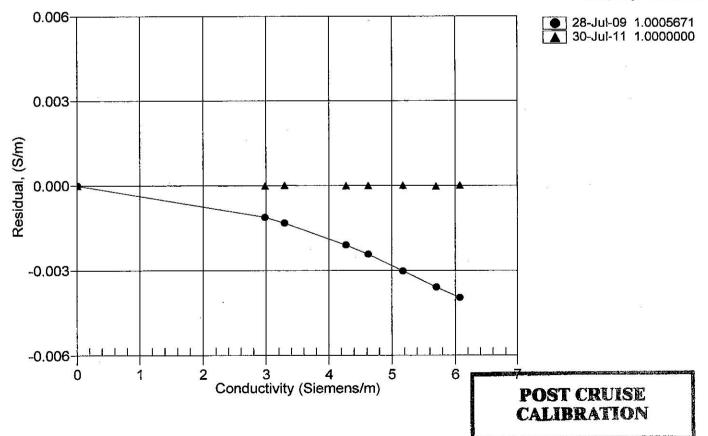
f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

t = temperature[°C); p = pressure[decibars]; $\delta = CTcor$; $\epsilon = CPcor$;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction





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Conductivity Calibration Report

Customer:	EMS/VOS Nippon		
Job Number:	55277	Date of Report:	7/29/2009
Model Number:	SBE 45	Serial Number:	4525798-0028
sensor drift. If the	calibration identifies a prob rk is completed. The 'as rec	s received', without cleaning or adjustmen lem or indicates cell cleaning is necessary eived' calibration is not performed if the s	y, then a second calibration is
Users must choose during deployment allows small correc after a repair or cle	whether the 'as received' ca In SEASOFT enter the ch tions for drift between calibr aning apply only to subsequ		r represents the sensor condition CON. The coefficient 'slope' Calibration coefficients obtained
'AS RECEIVED O	CALIBRATION	✓ Perform	ed Not Performed
Date: 7/17/2009		Drift since last cal:	+0.00050 PSU/month*
Comments:			
'CALIBRATION	AFTER CLEANING &	REPLATINIZING' Perform	ed Not Performed
Date: 7/28/2009		Drift since 08 Sep 07	-0.00010 PSU/month*
Comments:			

^{*}Measured at 3.0 S/m

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Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 17-Jul-09

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

COEFFICIENTS:

g = -1.034472e+000 h = 1.442046e-001i = -1.368575e-004

j = 3.252687e - 005

CPcor = -9.5700e-008CTcor = 3.2500e-006

WBOTC = 6.3756e-006

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2679.42	0.00000	0.00000
0.9999	34.9432	2.98577	5276.66	2.98576	-0.00001
4.5000	34.9218	3.29369	5474.19	3.29370	0.00001
15.0000	34.8782	4.27840	6061.96	4.27840	0.00000
18.5000	34.8690	4.62460	6255.21	4.62461	0.00000
24.0000	34.8587	5.18423	6555.24	5.18423	-0.00000
29.0000	34.8527	5.70761	6823.57	5.70760	-0.00001
32.5000	34.8487	6.08100	7008.54	6.08101	0.00001

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

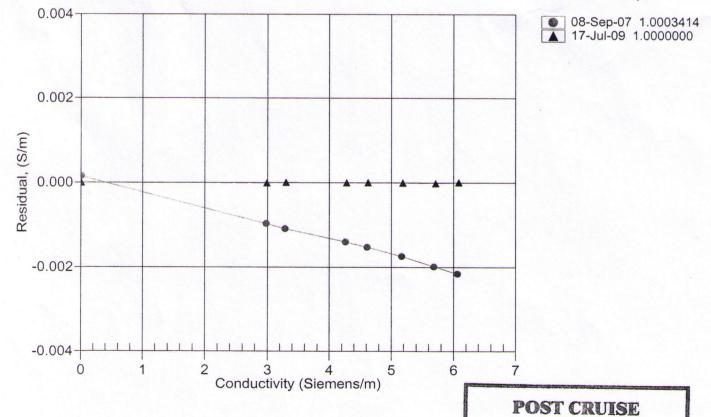
Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

 $t = temperature[^{\circ}C)$; p = pressure[decibars]; $\delta = CTcor$; $\epsilon = CPcor$;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

CALIBRATION





Conductivity Calibration Report

Customer:	EMS/VOS Nippon		
Job Number:	48029	Date of Report:	9/10/2007
Model Number	SBE 45	Serial Number:	4525798-0028
sensor drift. If the	calibration identifies a problem or ork is completed. The 'as received	rived', without cleaning or adjustments, or indicates cell cleaning is necessary, th or calibration is not performed if the sens	hen a second calibration is

An 'as received' calibration certificate is provided, listing the coefficients used to convert sensor frequency to conductivity. Users must choose whether the 'as received' calibration or the previous calibration better represents the sensor condition during deployment. In SEASOFT enter the chosen coefficients using the program SEACON. The coefficient 'slope' allows small corrections for drift between calibrations (consult the SEASOFT manual). Calibration coefficients obtained after a repair or cleaning apply only to subsequent data.

'AS RECEIVED CALIBRATION' Date: 9/8/2007	☑ Pe Drift since last cal:	rformed	Not Performed PSU/month*
Comments:	Difft since last car.	10.0	rso/monun
'CALIBRATION AFTER CLEANING & R	EPLATINIZING' Pe	rformed	✓ Not Performed
Date:	Drift since Last cal:		PSU/month*
Comments:			

^{*}Measured at 3.0 S/m

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 08-Sep-07

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

CALIBRATION DATE. 08-Sep-0

COEFFICIENTS:

g = -1.035560e+000h = 1.444473e-001

i = -1.891727e - 004

j = 3.639980e - 005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 6.3756e-006

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2679.61	0.00000	0.00000
1.0000	34.7879	2.97377	5268.18	2.97378	0.00001
4.4999	34.7679	3.28060	5465.24	3.28058	-0.00001
15.0000	34.7248	4.26157	6051.61	4.26157	-0.00000
18.5000	34.7157	4.60646	6244.39	4.60646	0.00000
24.0000	34.7055	5.16396	6543.71	5.16397	0.00001
29.0000	34.6994	5.68532	6811.37	5.68532	-0.00000
32.5000	34.6951	6.05724	6995.86	6.05724	-0.00000

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

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Conductivity Calibration Report

Customer:	EMS/VOS Nippon		***** *** *** ***	
Job Number:	40269	Date of Repo	rt:	8/9/2005
Model Number:	SBE 45	Serial Numb	er: 45	25798-0028
sensor drift. If the	calibration identifies a pro rk is completed. The 'as re	'as received', without cleaning or adju oblem or indicates cell cleaning is nec eceived' calibration is not performed i	essary, then a sec	cond calibration is
conductivity. Users sensor condition du coefficient 'slope' a	must choose whether the ' uring deployment. In SEA illows small corrections for	ided, listing the coefficients used to co as received' calibration or the previou SOFT enter the chosen coefficients u drift between calibrations (consult the g apply only to subsequent data.	us calibration bet sing the program	ter represents the SEACON. The
'AS RECEIVED O	CALIBRATION'	✓ Per	formed [Not Performed
Date: 8/3/2005		Drift since last cal:	+.00250	PSU/month*
Comments:				
The conductivity of	cell was found to have	failed.		
'CALIBRATION	AFTER REPAIR'	✓ Per	formed [Not Performed
Date: 8/9/2005]	Drift since Last cal:	N/A	PSU/month*
Comments: The conductivity of	cell was replaced.			

*Measured at 3.0 S/m

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 02-Aug-05

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

COEFFICIENTS:

g = -9.722572e-001	CPcor = -9.5700e-008
h = 1.359101e-001	CTcor = 3.2500e-006
i = -4.853963e-004	WBOTC = $6.3756e-006$
j = 5.302932e-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2683.55	0.00000	0.00000
1.0000	34.8116	2.97560	5410.98	2.97560	-0.00000
4.4999	34.7917	3.28263	5616.99	3.28263	0.00000
15.0000	34.7488	4.26421	6229.17	4.26422	0.00002
18.4999	34.7400	4.60933	6430.22	4.60932	-0.00002
24.0000	34.7302	5.16723	6742.22	5.16724	0.00001
29.0000	34.7258	5.68916	7021.12	5.68916	-0.00001
32.5000	34.7241	6.06173	7213.37	6.06174	0.00000

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

 $t = temperature[^{\circ}C)$; p = pressure[decibars]; $\delta = CTcor$; $\epsilon = CPcor$;

Residual = instrument conductivity - bath conductivity



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Conductivity Calibration Report

Customer:	EMS/VOS Nippon	· · · · · · · · · · · · · · · · · · ·	
Job Number:	33506	Date of Report:	9/23/2003
Model Number	SBE 45	Serial Number:	4525798-0028
sensor drift. If the performed after w functional, or by c An 'as received' co conductivity. User, sensor condition d coefficient 'slope' coefficients obtain	calibration identifies a proork is completed. The 'as recustomer request. Ulibration certificate is provius must choose whether the 'a curing deployment. In SEAS allows small corrections for	is received', without cleaning or adjustmablem or indicates cell cleaning is necessal ceived' calibration is not performed if the delay listing the coefficients used to convert is received' calibration or the previous conformation of the coefficients using drift between calibrations (consult the Supply only to subsequent data.	ary, then a second calibration is e sensor is damaged or non- ert sensor frequency to alibration better represents the great the EASOFT manual). Calibration
Date: 9/12/200	3	Drift since last cal:	+.00140 PSU/month*
Comments: The conductivity	cell was found to have t	ailed.	
'CALIBRATION	AFTER CLEANING &	REPLATINIZING' ✓ Perfor	med Not Performed
Date: 9/23/200	3	Drift since Last cal:	N/A PSU/month*
Comments: The conductivity	cell was replaced.		

*Measured at 3.0 S/m

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0028 CALIBRATION DATE: 02-Aug-05

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

COEFFICIENTS:

g = -9.722572e - 001	CPcor = -9.5700e-008
h = 1.359101e-001	CTcor = 3.2500e-006
i = -4.853963e-004	WBOTC = $6.3756e-006$
j = 5.302932e-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2683.55	0.00000	0.00000
1.0000	34.8116	2.97560	5410.98	2.97560	-0.00000
4.4999	34.7917	3.28263	5616.99	3.28263	0.00000
15.0000	34.7488	4.26421	6229.17	4.26422	0.00002
18.4999	34.7400	4.60933	6430.22	4.60932	-0.00002
24.0000	34.7302	5.16723	6742.22	5.16724	0.00001
29.0000	34.7258	5.68916	7021.12	5.68916	-0.00001
32.5000	34.7241	6.06173	7213.37	6.06174	0.00000

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

 $t = temperature[^{\circ}C)$; p = pressure[decibars]; $\delta = CTcor$; $\epsilon = CPcor$;

Residual = instrument conductivity - bath conductivity