



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0045
CALIBRATION DATE: 22-Dec-20

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

COEFFICIENTS:

g = -1.011763e+000
h = 1.470170e-001
i = -2.173253e-004
j = 3.786653e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.5198e-008

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2626.11	0.00000	0.00000
1.0000	34.7383	2.96993	5206.03	2.96994	0.00001
4.5000	34.7198	3.27652	5402.09	3.27651	-0.00001
15.0000	34.6805	4.25671	5985.28	4.25671	-0.00000
18.5000	34.6731	4.60142	6177.03	4.60142	0.00000
23.9940	34.6655	5.15805	6474.40	5.15805	-0.00000
29.0000	34.6626	5.67997	6741.01	5.67997	0.00000
32.5000	34.6617	6.05207	6924.64	6.05207	-0.00000

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

