



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

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

SENSOR SERIAL NUMBER: 0360
CALIBRATION DATE: 23-Sep-22

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

COEFFICIENTS:

g = -9.95354755e+000
h = 1.16898326e+000
i = -2.24385110e-003
j = 2.37378512e-004

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2.92367	0.00000	0.00000
0.9999	34.5414	2.95469	5.82548	2.95471	0.00002
4.5000	34.5196	3.25948	6.04573	3.25946	-0.00002
14.9999	34.4739	4.23402	6.70105	4.23400	-0.00002
18.5000	34.4636	4.57660	6.91650	4.57662	0.00002
23.9999	34.4523	5.13042	7.25095	5.13040	-0.00001
29.0000	34.4453	5.64835	7.55011	5.64838	0.00003
32.5000	34.4405	6.01782	7.75628	6.01781	-0.00002

f = Instrument Output (kHz)

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

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

