



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

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

SENSOR SERIAL NUMBER: 0352
CALIBRATION DATE: 01-Mar-20

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

COEFFICIENTS:

g = -1.00378461e+001
h = 1.10807355e+000
i = -2.74669945e-003
j = 2.68033402e-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	3.01776	0.00000	0.00000
1.0000	34.8879	2.98150	6.01572	2.98151	0.00001
4.5000	34.8684	3.28915	6.24327	3.28915	-0.00001
15.0000	34.8273	4.27282	6.92013	4.27281	-0.00001
18.5000	34.8187	4.61865	7.14261	4.61865	-0.00000
24.0000	34.8093	5.17770	7.48798	5.17771	0.00001
29.0000	34.8036	5.70047	7.79676	5.70046	-0.00001
32.5001	34.7997	6.07343	8.00959	6.07344	0.00000

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

