



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

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

SENSOR SERIAL NUMBER: 0189
CALIBRATION DATE: 03-Nov-17

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

COEFFICIENTS:

g = -9.73655413e+000
h = 1.10093163e+000
i = -2.43300075e-003
j = 2.58112310e-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	2.98059	0.00000	0.00000
1.0000	34.7473	2.97063	6.00004	2.97064	0.00001
4.4999	34.7266	3.27709	6.22831	3.27707	-0.00001
15.0000	34.6829	4.25698	6.90706	4.25697	-0.00000
18.5000	34.6739	4.60151	7.13008	4.60151	-0.00001
24.0000	34.6643	5.15851	7.47627	5.15852	0.00001
29.0000	34.6594	5.67951	7.78579	5.67952	0.00001
32.5000	34.6571	6.05136	7.99917	6.05135	-0.00001

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

