



Sea-Bird Scientific  
 13431 NE 20<sup>th</sup> Street  
 Bellevue, WA 98005  
 USA

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

SENSOR SERIAL NUMBER: 0273  
 CALIBRATION DATE: 18-Aug-24

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

COEFFICIENTS:

g = -1.00902851e+001  
 h = 1.13605991e+000  
 i = -2.73696928e-003  
 j = 2.72828999e-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	2.98780	0.00000	0.00000
1.0000	34.6400	2.96233	5.92982	2.96233	0.00000
4.5000	34.6204	3.26806	6.15352	3.26806	-0.00000
15.0000	34.5779	4.24545	6.81896	4.24544	-0.00001
18.5000	34.5690	4.58909	7.03773	4.58909	0.00000
24.0000	34.5591	5.14458	7.37738	5.14458	0.00001
29.0000	34.5534	5.66408	7.68112	5.66409	0.00000
32.5000	34.5499	6.03477	7.89051	6.03476	-0.00001

f = Instrument Output (kHz)

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

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

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

