



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

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

SENSOR SERIAL NUMBER: 0273
 CALIBRATION DATE: 19-Jun-22

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

COEFFICIENTS:

g = -1.00723799e+001
 h = 1.13615387e+000
 i = -3.67735198e-003
 j = 3.41090524e-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	2.98793	0.00000	0.00000
1.0000	34.6539	2.96340	5.93738	2.96340	-0.00000
4.5000	34.6341	3.26922	6.16155	3.26922	0.00000
15.0000	34.5927	4.24708	6.82834	4.24708	0.00001
18.5000	34.5840	4.59087	7.04750	4.59087	0.00000
24.0000	34.5748	5.14666	7.38773	5.14665	-0.00001
29.0000	34.5702	5.66653	7.69199	5.66652	-0.00001
32.5000	34.5676	6.03751	7.90173	6.03751	0.00001

f = Instrument Output (kHz)

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

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

$$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$$

