

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4287  
CALIBRATION DATE: 02-Feb-17

SBE 16plus CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -1.045614e+000  
h = 1.496317e-001  
i = -3.884280e-004  
j = 5.119811e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2649.40	0.0000	0.00000
0.9999	34.6590	2.96379	5187.46	2.9638	-0.00001
4.5000	34.6390	3.26964	5381.18	3.2696	0.00000
15.0000	34.5960	4.24744	5957.61	4.2474	0.00001
18.5000	34.5865	4.59116	6147.14	4.5912	0.00000
24.0000	34.5754	5.14674	6441.38	5.1467	-0.00001
29.0000	34.5681	5.66622	6704.49	5.6662	-0.00001
32.5000	34.5627	6.03675	6885.82	6.0368	0.00001

f = Instrument Output (Hz) / 1000.0

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

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

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

