

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2356
CALIBRATION DATE: 06-Feb-15

SBE 4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.00903530e+001
h = 1.47226553e+000
i = -2.09243423e-005
j = 8.45509859e-005

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.61748	0.00000	0.00000
-1.0000	35.1832	2.83136	5.10370	2.83136	0.00000
1.0000	35.1835	3.00434	5.21722	3.00434	0.00000
15.0000	35.1835	4.31186	6.00588	4.31185	-0.00001
18.5000	35.1821	4.66162	6.19975	4.66162	-0.00000
29.0000	35.1764	5.75461	6.76964	5.75463	0.00002
32.5001	35.1721	6.13098	6.95496	6.13096	-0.00002

f = INST FREQ / 1000.0

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

