

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1553
CALIBRATION DATE: 06-Feb-15

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

COEFFICIENTS:

g = -4.18015186e+000
h = 5.25262568e-001
i = 6.88301969e-005
j = 2.45445343e-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	2.81998	0.00000	0.00000
-1.0000	35.1832	2.83136	7.84996	2.83141	0.00005
1.0000	35.1835	3.00434	8.05540	3.00431	-0.00003
15.0000	35.1835	4.31186	9.46385	4.31179	-0.00007
18.5000	35.1821	4.66162	9.80592	4.66161	-0.00001
29.0000	35.1764	5.75461	10.80402	5.75479	0.00018
32.5001	35.1721	6.13098	11.12627	6.13086	-0.00012

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

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

Residual = instrument conductivity - bath conductivity

