

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1538
CALIBRATION DATE: 06-Feb-15

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

COEFFICIENTS:

g = -3.88590613e+000
h = 4.34923887e-001
i = -1.52707268e-004
j = 2.77873141e-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	2.98981	0.00000	0.00000
-1.0000	35.1832	2.83136	8.59703	2.83137	0.00001
1.0000	35.1835	3.00434	8.82418	3.00434	0.00000
15.0000	35.1835	4.31186	10.37932	4.31182	-0.00004
18.5000	35.1821	4.66162	10.75663	4.66162	-0.00000
29.0000	35.1764	5.75461	11.85684	5.75469	0.00008
32.5001	35.1721	6.13098	12.21202	6.13092	-0.00006

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

